Carnegie Mellon University

COMMENCEMENT **2023**

May 14

Carnegie Mellon University

www.cmu.edu

5000 Forbes Avenue, Pittsburgh, PA 15213

“THINK OF YOURSELF AS ON THE THRESHOLD OF UNPARALLELED SUCCESS. A WHOLE, CLEAR, GLORIOUS LIFE LIES BEFORE YOU.”

ANDREW CARNEGIE

FOUNDER, CARNEGIE MELLON UNIVERSITY

Welcome

Dear graduates, families and friends of the Carnegie Mellon Class of 2023:

Welcome to Carnegie Mellon University's 125th Commencement Ceremony.

Today, we celebrate the achievements of the Class of 2023. Since arriving on campus, these remarkable students have been immersed in work that matters — in boundary-crossing education and research, outstanding creativity and performance, and community service and engagement. Even when their CMU experience was disrupted by the COVID-19 pandemic, they reacted with profound resilience and continued to innovate, create and inspire. Graduates: you have demonstrated remarkable integrity, inclusion, collaboration and empathy and already changed this community for the better — and I know you will change the world.

We are especially grateful to the families and friends of the graduates who have come here today to celebrate with us. Graduation from a demanding academic institution like Carnegie Mellon is a team effort, and these students could not have succeeded without your steadfast love and support over the years. Today, you share in their well-deserved accomplishments.

To our graduates, I am confident that you will approach your future endeavors with the same perseverance and passion that has defined your time as students. I cannot wait to see what you will accomplish and the impact you will make on a world that is ready for your talent and ideas.

This is just the beginning of your lifelong relationship with CMU. Today, you join a Tartan network of more than 125,000 alumni around the world. I encourage you to take advantage of this network and remember to share your accumulating knowledge and experiences with the students who follow in your footsteps.

On behalf of the entire Carnegie Mellon community, I wish the Class of 2023 great success, fulfillment and happiness in the years ahead.

Congratulations!

Farnam Jahanian

Farnam Jahanian
President
Henry L. Hillman President's Chair
Carnegie Mellon University

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Program

Procession

Led by Carnegie Mellon
Pipes and Drums

Commencement Declaration

Catherine Moore
Teaching Professor of Drama,
College of Fine Arts
2023 William H. and Frances S. Ryan Award
for Meritorious Teaching

The National Anthem

Emma Rogers (CFA 2023)

Invocation

Reverend Mike Holohan
Chair, Council of Religious Advisors
Pastor, Commonwealth of Oakland

Please be seated following the invocation.

Welcome

David A. Coulter (TPR 1971)
Chair, Board of Trustees,
Carnegie Mellon University
Special Limited Partner, Warburg Pincus LLC

Remarks and Recognitions

Farnam Jahanian
President
Henry L. Hillman President's Chair

Special Reading

Sharon Lovell (CFA 2023)

Welcome to New Alumni

Brit McCandless Farmer (DC 2008)
President, Alumni Association Board
Digital Producer, 60 Minutes

Student Speaker

Prithu Pareek (ENG 2023)

Conferral of Honorary Degrees

Farnam Jahanian

James H. Garrett Jr.
Provost and Chief Academic Officer
Thomas Lord Professor of Civil and Environmental Engineering

Candidates for Honorary Degrees

Fred Eversley (ENG 1964)
Artist
Doctor of Fine Arts

Patrick Gelsinger
Chief Executive Officer, Intel Corp.
Doctor of Science and Technology

Lieutenant General Gina M. Grosso (TPR 1986)
Assistant Secretary for Human Resources and Administration/Operations, Security and Preparedness,
United States Department of Veterans Affairs
Doctor of Public Service

Judith Light (CFA 1970)
Actor/Producer
Doctor of Fine Arts

David S. Shapira
Director, Board of Directors,
Giant Eagle, Inc.
Chairman, David S. Shapira Foundation
Doctor of Business Administration

Keynote Speaker

Patrick Gelsinger

President's Charge

Farnam Jahanian

Conferring of Degrees

Farnam Jahanian

James H. Garrett Jr.

William Sanders
Dr. William D. and Nancy W. Strecker Dean, College of Engineering

Mary Ellen Poole
Stanley and Marcia Gumberg Dean, College of Fine Arts

Richard Scheines
Bess Family Dean, Dietrich College of Humanities and Social Sciences

Ramayya Krishnan
H.J. Heinz Dean, Heinz College of Information Systems and Public Policy

Rebecca W. Doerge
Glen de Vries Dean, Mellon College of Science

Martial Hebert
Dean, School of Computer Science

Isabelle Bajeux-Besnainou
Dean, Tepper School of Business

Michael A. Trick
Dean, Carnegie Mellon in Qatar

Closing Remarks

Farnam Jahanian

Recession

Led by Carnegie Mellon Pipes and Drums

Initial Interpretations

CFA	College of Fine Arts
DC	Dietrich College of Humanities and Social Sciences
ENG	College of Engineering
HNZ	Heinz College of Information Systems and Public Policy
MCS	Mellon College of Science
SCS	School of Computer Science
TPR	Tepper School of Business

Procession

9:15 a.m. The procession starts. **ALL GUESTS SHOULD BE SEATED BY THIS TIME.** Guests are not permitted on the track or in the aisles during the procession.

ORDER OF PROCESSION

- Candidates for Bachelor's, Master's and Doctor's Degrees (processing by college)
- Faculty
- Deans, University Leadership and Board of Trustees

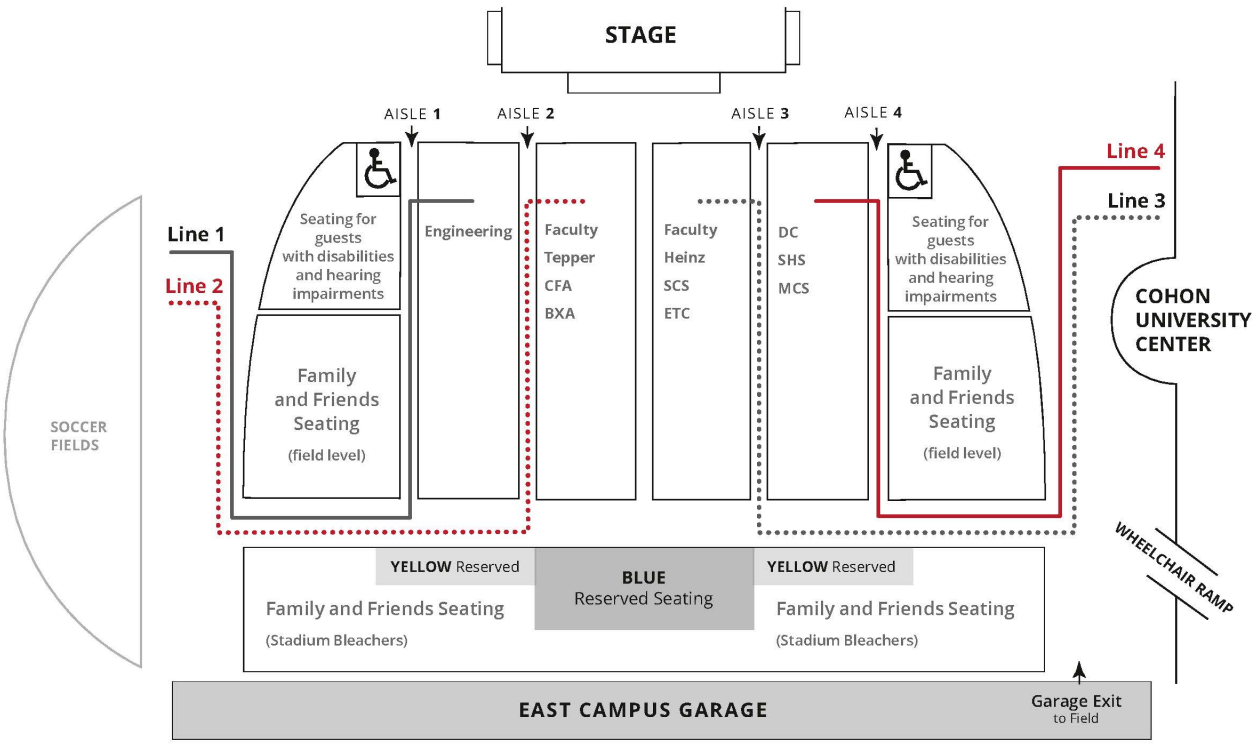
CANDIDATE SEATING

Candidates will be seated in the four center seating bays according to their college's section on the field. Family and friends seating is also available on the field. To identify where your graduate will be seated, please see the seating map below.

RECESSION

To ensure that all graduates and special guests may exit smoothly, please remain seated until those seated on the stage have left the field. Please determine where you need to go after the ceremony and use the appropriate exit route.

SEATING MAP



Line 1	Line 2	Line 3	Line 4
Engineering	Tepper	Heinz	DC
	CFA	SCS	SHS
	BXA	ETC	MCS

Restrooms are located in all campus buildings and under the bleachers in Gesling Stadium.

Marshals

Faculty Marshal

Catherine Moore
Teaching Professor of Drama, College of Fine Arts
2023 William H. and Frances S. Ryan Award for Meritorious Teaching

Platform Group

Gina Casalegno
Vice President for Student Affairs and Dean of Students

Faculty

Jon Minden
Professor of Biological Sciences

College of Engineering

Alaine Allen
Associate Dean for Diversity, Equity and Inclusion

Shelley Anna
Associate Dean for Graduate & Faculty Affairs, and Strategic Initiatives; Professor of Chemical Engineering

Mark Bedillion
Teaching Professor of Mechanical Engineering

Deanna Matthews
Teaching Professor, Associate Department Head for Undergraduate Affairs

Bill Nace
Teaching Professor

Conrad Zapanta
Associate Dean for Undergraduate Studies, Teaching Professor, Biomedical Engineering

College of Fine Arts

Dick Block
Teaching Professor; Associate Head, School of Drama

Carla LaRocca
Associate Teaching Professor, School of Music

TJ Young
Associate Professor of Dramaturgy

Dietrich College of Humanities and Social Sciences

Steve Awodey
Professor of Philosophy

Sharon M. Carver
Associate Dean for Educational Affairs

Chante Cox-Boyd
Associate Director of Undergraduate Studies, Department of Psychology; Associate Teaching Professor of Psychology

Joseph Devine
Associate Dean for Undergraduate Studies

Joel Greenhouse
Professor of Statistics, Department of Statistics and Data Science

Danny Oppenheimer
Professor of Decision Sciences and Psychology (Courtesy)

Heinz College of Information Systems and Public Policy

Rebekah Apple
Director of the Master of Medical Management Program

Sean Beggs
Director, Master of Information Systems Management

Randall Trzeciak
Director, Master of Science in Information Security Policy & Management Program

Mellon College of Science

Maggie Braun
Associate Dean for Undergraduate Affairs, Teaching Professor of Biological Sciences

Kenneth Hovis
Assistant Dean for Educational Initiatives

Manfred Paulini
Professor of Physics, Associate Dean for Faculty and Graduate Affairs

School of Computer Science

Thomas J. Cortina
Associate Dean for Undergraduate Programs

David Garlan
Associate Dean for Master's Programs

Tepper School of Business

Tad Brinkerhoff
Assistant Dean, Master's Programs

Brad Eiben
Executive Director, Master of Science in Product Management Program

Jennifer Wegner
Assistant Dean, Undergraduate Programs

BXA Intercollege Degree Programs

M. Stephanie Murray
Senior Associate Dean

Academic Symbols

THE CARNEGIE MACE

In the British tradition, a procession for a ceremony such as this commencement may be led by an official bearing a mace or staff, or supervised by a marshal carrying a baton or other badge of office. Carnegie Mellon has provided the faculty marshal (officially responsible for the entire ceremony) with a silver mace. The Carnegie mace is surmounted with a thistle, a flowering plant, symbolic of Andrew Carnegie's Scottish origin.

REGALIA

Other components of this ceremony include the regalia of the participating faculty and students — a colorful relic of medieval scholastic tradition. During the Middle Ages, education was a function of religious organizations. The long gown evolved from the monk's habit, and the hood from the cowl that monks wore on their heads.

The hoods are decorated with colored velvet bands indicating the disciplines in which they earned their degree. Carnegie Mellon hoods are dressed with the Carnegie family tartan in blue, red, green and yellow, created at Andrew Carnegie's request and manufactured in Scotland.

Candidates for the master's degree wear a velvet band of the color representing their particular academic discipline on their hoods. The colors representing the academic disciplines for the master's degrees awarded by Carnegie Mellon are as follows:

College of Engineering | *Orange*

College of Fine Arts | *Dark Brown*

Music | *Pink*

Dietrich College of Humanities and Social Sciences | *White*

Statistics and Data Science | *Gold*

Heinz College of Information Systems and Public Policy:

Information Systems | *Yellow*

Public Policy | *Peacock Blue*

Mellon College of Science | *Gold*

School of Computer Science | *Gold*

Tepper School of Business | *Drab Brown*

University-Wide, Intercollege and Joint-Degree Programs | *Various Colors*

The colors representing the academic disciplines for the doctor's degrees awarded by Carnegie Mellon are as follows:

Doctor of Arts | *White*

Doctor of Design | *Dark Brown*

Doctor of Philosophy | *Dark Blue*

Doctor of Professional Practice | *Dark Brown*

MORTARBOARD AND TASSEL

Some legends say the mortarboard developed from the skull caps worn by churchmen officiating at religious services; others say the cap resembles a scholar's book and came from Oxford University.

The tassel, worn on the square of the mortarboard, developed from the 15th century when caps and hats came into fashion. One style of hat bore a tuft in the center, which evolved into the tassel. Students receiving a bachelor's degree have a red tassel, master's degree candidates have a black tassel and those receiving a doctor's degree have a gold tassel. The tassels hold an emblem stating the year of graduation.

THE PRESIDENT'S MEDALLION AND CHAIN

In holding with ceremonial tradition, the president will wear the chain of office and medallion. These brass pieces have been designed to be passed down from president to president, bridging our past and present to our promising future.

A medallion bearing the university seal anchors the 36-inch ornamental chain. Adorning the piece are four medals, two engraved with the thistle and two featuring images of our founders Andrew Carnegie and Andrew Mellon.

The links of the chain are interwoven with 12 curved banners engraved with the names of each of the colleges and schools within the university, the University Libraries and Carnegie Mellon's campus locations around the world. This symbol of our interconnected community meets at the "president's banner." Marked by a decorative accent, this banner sits above the medallion and features Carnegie's famous motto, "My heart is in the work."

University and College Honors

Bachelor's candidates who have achieved exemplary academic success receive university and/or college honors. Below is a description of the criteria for the honors. Students may achieve university and/or college honors by their seventh or eighth semester. Because of printing deadlines, only those who have achieved honors as of their seventh semester are listed in this program.

- ◆ **University Honors** are given to undergraduates on the basis of a 3.5 or higher quality point average (QPA). These students are identified by a medallion worn as part of their academic regalia.
- ◇ **College Honors** are awarded individually by each college. These students are identified by a cord worn as part of their academic regalia. The criteria for each college are outlined below.
- ◆ **University and College Honors**

BXA INTERCOLLEGE DEGREE PROGRAMS

Bachelor of Computer Science and Arts (BCSA), Bachelor of Engineering Studies and Arts (BESA), Bachelor of Humanities and Arts (BHA), Bachelor of Science and Arts (BSA), and Engineering and Arts (EA) additional major students who successfully complete a BXA Capstone Project under the guidance of a faculty member, present their research results and earn an overall QPA of 3.25 or higher will receive BCSA Intercollege Honors, BESA Intercollege Honors, BHA Intercollege Honors, BSA Intercollege Honors or EA Intercollege Honors.

The BCSA honors cord colors are tiffany gold and dark brown. The BESA and EA honors cord colors are orange and dark brown. The BHA honors cord colors are purple and dark brown. The BSA honors cord colors are gold and dark brown.

COLLEGE OF ENGINEERING

The College of Engineering College Honors recipients complete at least 18 units of advanced level research during their senior year under the guidance of a Carnegie Mellon faculty member, and present their work at the annual university-wide research symposium, Meeting of the Minds.

The Engineering honors cord color is orange.

COLLEGE OF FINE ARTS

The College of Fine Arts (CFA) issues College Honors based on the following school criteria:

Architecture – students who have a cumulative QPA of 3.3 or higher.

Art – students who have won a School of Art award or whom faculty select based on overall academic and artistic excellence.

Design – students who have won a School of Design award.

Drama – students who have a cumulative QPA of 3.3 or higher. The faculty may also select additional students based on overall academic and artistic excellence, school citizenship, innovative thinking and/or entrepreneurship.

Music – students who have a cumulative QPA of 3.3 or higher, and *either* have won a School of Music award *or* have been awarded College Honors by the School of Music Division Heads Committee.

CFA Student-Defined Majors – students may receive College Honors if they have a cumulative QPA of 3.3 and have also completed one of the following: 1) senior project, 2) internship, 3) independent study where work is used, cited or has a direct impact on the university or society at large.

The CFA honors cord color is dark brown.

DIETRICH COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Students who complete a Dietrich College of Humanities and Social Sciences (DC) senior honors thesis under the auspices of the Dietrich College Senior Honors Program receive Dietrich College Honors.

The DC honors cord color is purple.

MELLON COLLEGE OF SCIENCE

Mellon College of Science (MCS) students are awarded MCS College Honors if they maintain a QPA of 3.2 or higher, demonstrate quality undergraduate research and either publish or present their research at a scientific meeting.

The MCS honors cord color is gold.

SCHOOL OF COMPUTER SCIENCE

The School of Computer Science (SCS) students complete a senior research thesis under the guidance of a faculty member. The students present their research results at the SCS Fall Research Poster Presentation and the annual Meeting of the Minds Undergraduate Research Symposium. Posters describing their thesis research are displayed in the Gates & Hillman Centers.

The SCS honors cord color is tiffany gold.

SCIENCE AND HUMANITIES SCHOLARS

Science and Humanities Scholars (SHS) students may receive either MCS or DC Honors.

TEPPER SCHOOL OF BUSINESS

Tepper School of Business (TPR) students earn college honors by successfully completing a year-long senior research thesis under the guidance of a faculty advisor. Students present their research results at the annual Meeting of the Minds Undergraduate Research Symposium.

The TPR honors cord color is drab brown.

Speakers

PRESIDENT

FARNAM JAHANIAN

Henry L. Hillman President's Chair

Farnam Jahanian was appointed the 10th president of Carnegie Mellon University by its Board of Trustees in March 2018 and was unanimously reappointed for a second term in February 2023.

A nationally recognized computer scientist, entrepreneur, public servant and higher education leader, Jahanian brings to CMU extensive leadership and administrative expertise, not only in advancing research and education within and across disciplines, but also in translating research into technologies and practices that benefit society.

He was previously the university's provost and chief academic officer with broad responsibility for leading CMU's schools, colleges, institutes and campuses. He first joined CMU in 2014 as vice president for research.

Before coming to CMU, Jahanian led the National Science Foundation Directorate for Computer and Information Science and Engineering from 2011 to 2014. Previously, Jahanian was the Edward S. Davidson Collegiate Professor at the University of Michigan, where he served as chair for Computer Science and Engineering from 2007 to 2011 and as director of the Software Systems Laboratory from 1997 to 2000.

Jahanian has been an active advocate for how basic research can be uniquely central to an innovation ecosystem that drives global competitiveness. His scholarly work in cybersecurity and networks ultimately transformed how cyber threats are addressed today and formed the basis for the internet security company Arbor Networks, which he co-founded in 2001 and served as chairman until its acquisition in 2010.

President Joe Biden appointed Jahanian to the President's Export Council in 2023. He is a member of the board of directors for Highmark Health, the National Center for Women and Information Technology (NCWIT) and the Allegheny Conference on Community Development, among others.

Jahanian holds a Ph.D. in computer science from the University of Texas at Austin. He is a fellow of the Association for Computing Machinery, the Institute of Electrical and Electronic Engineers and the American Association for the Advancement of Science.

PROVOST AND CHIEF ACADEMIC OFFICER

JAMES H. GARRETT JR. (ENG 1982, 1983, 1986)

Thomas Lord Professor of Civil and Environmental Engineering

James H. Garrett Jr. was named provost and chief academic officer of Carnegie Mellon University in January 2019.

As the university's chief academic officer, Garrett is responsible for leading CMU's schools, colleges, institutes and campuses and is instrumental in institutional and academic planning and implementation.

A member of the faculty since 1990, Garrett became dean of Carnegie Mellon University's College of Engineering in 2013. Immediately prior to that, he spent six years as head of the Department of Civil and Environmental Engineering.

Garrett is Carnegie Mellon plaid through and through, having received his B.S. (1982), M.S. (1983) and Ph.D. (1986) degrees in Civil and Environmental Engineering from the institution. He joined the faculty of the college as an assistant professor in 1990 and was promoted to full professor in 1996. Garrett has served in other administrative roles including associate dean for Graduate and Faculty Affairs (2000–2006) and acting dean (2004), as well as faculty co-director of the Smart Infrastructure Institute, a research center aimed at developing sensing technology for construction and infrastructure systems. Throughout his research career, Garrett focused on how sensors and data analytics can make our cities more adaptive and efficient.

Among his many recognitions and awards, in 2018 Garrett was awarded the title of Distinguished Member of American Society of Civil Engineers, the highest honor available to civil engineers.

This approach aims to give built infrastructures the ability to detect and report on problems directly to the humans charged with maintaining those structures, allowing for more proactive and cost-effective infrastructure management.

Among his many recognitions and awards, in 2020 Garrett was elected to the National Academy of Construction and in 2018 he was awarded the title of Distinguished Member of American Society of Civil Engineers, the highest honor available to civil engineers.

CHAIR, BOARD OF TRUSTEES

DAVID A. COULTER (TPR 1971)

Special Limited Partner, Warburg Pincus LLC

David A. Coulter served as vice chairman, managing director and senior advisor at Warburg Pincus LLC, focusing on the firm's financial services practice from 2005–2014. He continues to serve as a special limited partner to Warburg Pincus.

Coulter retired in September 2005 as vice chairman of J.P. Morgan & Chase Co. He previously served as executive chairman of its investment bank, asset and wealth management, and private equity business. Coulter was a member of the firm's three person Office of the Chairman and also its Executive Committee.

Coulter came to J.P. Morgan Chase via its July 2000 acquisition of The Beacon Group, a small merchant banking operation. Before joining The Beacon Group, Coulter was the chairman and chief executive officer of the BankAmerica Corporation and Bank of America NT & SA. His career at Bank of America was from 1976 to 1998 and covered a wide range of banking activities. He was also an active member of the Federal Reserve Advisory Council and the International Monetary Conference.

He served on the board of Aeolus Re, MBIA, Mastercard International, Webster Bank, Sterling Financial, the Strayer Corporation, Santander Asset Management and Triton International. He currently is on the board of Varo Money, Inc., ModivCare and Innovu. He also serves on the boards of Lincoln Center, Carnegie Mellon University, Asia Society of Northern California and the American Prairie Reserve.

He received both his B.S. and his M.S. from Carnegie Mellon University and currently serves as a trustee for Carnegie Mellon.

ALUMNI ASSOCIATION BOARD PRESIDENT

BRIT MCCANDLESS FARMER (DC 2008)

Digital Producer, 60 Minutes

Brit McCandless Farmer is an award-winning journalist with a career spanning print, broadcast and digital news. As the digital producer for 60 Minutes at CBS News, Farmer interviews, writes and produces online content to accompany the highest-rated news broadcast in the country. She has won a Webby Award and numerous Telly Awards.

Previously, Farmer worked at the CBS Weekend Evening News and CBS This Morning, where she produced interviews with presidential candidates, elected officials and business leaders. Before joining CBS, she worked at CNN, where she was a member of a producing and reporting team that won a Peabody Award.

While a student at Carnegie Mellon, Farmer received the Alumni Association Student Engagement Award, was named an Andrew Carnegie Scholar and was initiated into the Phi Beta Kappa honor society.

She is a term member of the Council on Foreign Relations and the president of the Carnegie Mellon Alumni Association Board. Farmer lives in New York City with her husband and son.

Speakers

KEYNOTE SPEAKER AND HONORARY DEGREE RECIPIENT

PATRICK GELSINGER

Chief Executive Officer, Intel Corp.

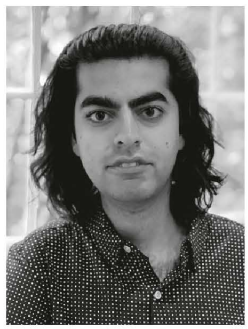
Doctor of Science and Technology

Patrick (Pat) Gelsinger is chief executive officer of Intel Corporation and serves on its board of directors. He has more than four decades of technology leadership and experience driving innovation, with 30 of those years serving in Intel engineering and executive roles.

Gelsinger was CEO of VMware until February 2021, transforming VMware into a recognized global leader in cloud infrastructure, enterprise, mobility and cybersecurity — almost tripling the company's annual revenues. He was ranked the top CEO in America in 2019 in Glassdoor's annual employee survey. Prior to joining VMware in 2012, Gelsinger was president and chief operating officer of EMC's Information Infrastructure Products business, overseeing engineering and operations for information storage, data computing, backup and recovery, RSA security and enterprise solutions.

Gelsinger began his career in 1979 at Intel, becoming its first chief technology officer and serving as senior vice president and the general manager of the Digital Enterprise Group. He managed the creation of key industry technologies like USB and Wi-Fi. He was the architect of the original 80486 processor, led 14 microprocessor programs and played key roles in the Intel® Core™ and Intel® Xeon® processor families, leading to Intel becoming the world's preeminent microprocessor supplier.

Gelsinger earned degrees in electrical engineering: an associate degree from Lincoln Technical Institute, a bachelor's degree from Santa Clara University and a master's degree from Stanford University. He was elected a member of the National Academy of Engineering in February 2023. Gelsinger holds eight patents in the areas of VLSI design, computer architecture and communications, is an IEEE fellow and serves as a member of the National Security Telecommunications Advisory Committee. He also sits on the Business Council, Business Roundtable, CEO Council, CEO Forum, Global Semi Alliance, Tech Council CEO and U.S. Chamber China Center Advisory Board.



STUDENT SPEAKER

PRITHU PAREEK (ENG 2023)

Prithu Pareek is a senior at Carnegie Mellon University majoring in electrical and computer engineering and currently serving as the president of the Undergraduate Student Senate. Originally from the Washington, D.C. area, he is passionate about creating a more equitable and accessible world for people with disabilities through new assistive technologies and policies. This passion is fueled by his personal experiences living with muscular dystrophy.

Pareek has had the opportunity to conduct research in human-robot interaction and assistive robotics at CMU and the Naval Research Laboratories in D.C. As part of this research, he recently developed a new motion planning algorithm that allows multiarmed robots to more safely and efficiently complete tasks in uncertain environments. Before this, he researched treatments for Duchenne Muscular Dystrophy at Boston Children's Hospital.

Pareek has a zeal for advocacy, working on several initiatives while serving as a student senator. As chair of the Senate Business Affairs Committee, he successfully led an initiative to improve the hourly student worker experience and raise the campus-wide minimum wage from $8.25 to $10 an hour and successfully advocated for a campus-wide day of service holiday on Election Day. After CMU, he will be working in the Bay Area as a motion planning engineer at Aurora, an autonomous vehicle company.

Honorary Degree Recipients

FRED EVERSLEY (ENG 1964)

Artist

Doctor of Fine Arts

Fred Eversley is a key figure in the development of contemporary art from Los Angeles during the postwar period. Now based in New York after living and working in Venice Beach, Ca., for over 50 years, Eversley synthesizes elements from several art historical movements associated with Southern California, including light and space.

Eversley is an electrical engineering graduate and worked for Wyle Laboratories, California, where he was contracted to build high-intensity acoustic facilities for NASA's Apollo and Gemini missions until becoming an artist in 1967. His sculptures are informed by energy concepts and astrodynamics. He plays subtly with optical effects of color and light, often using his invention of spinning liquid polyester resin, utilizing centrifugal forces in molds attached to lathes and turntables, creating parabolic and cylindrical lenses that he is most recognized for. His scientific background helped develop his interest in the parabola — the only shape that concentrates all forms of energy to a single focal point. His pioneering use of plastic, polyester resin and industrial dyes and pigments reflects the technological advances that define the postwar period, even as his work reveals the timeless inner workings of the human eye and mind.

Most recently, Eversley was the subject of the solo exhibition at the Orange County Museum of Art, Costa Mesa, Ca., October 2022-23. In May 2023, he will have a solo show at David Kordansky Gallery, New York, and be the subject of a solo career-spanning survey in 2024 at the Benton Museum of Art at Pomona College, Claremont, Ca., part of the Art and Science PST 2024 program by the Getty Foundation.

Recent group exhibitions include Light and Space, Copenhagen Contemporary, Copenhagen (2021–2022); Soul of a Nation: Art in the Age of Black Power 1963–1983 (2017–2020, traveled to five venues); Space Shifters, Hayward Gallery, London (2018); Dynamo – A Century of Light and Motion in Art at Grand Palais, Paris (2013); Pacific Standard Time: Art in L.A. 1945–1980 (Getty Foundation, 2011; traveled to Gropius Bau, Berlin, 2012). Eversley's work is in the permanent collections of more than three dozen museums throughout the world.

GINA M. GROSSO (TPR 1986)

Assistant Secretary for Human Resources and Administration/ Operations, Security and Preparedness

United States Department of Veterans Affairs

Doctor of Public Service

Gina M. Grosso was sworn in as the assistant secretary for Human Resources and Administration/Operations, Security and Preparedness at the Department of Veterans Affairs on June 23, 2021. She leads development and oversight of human capital strategies, policies and practices while managing the department's preparedness, law enforcement and security capabilities for 440,000 Veterans Affairs employees, including 6,000 human resources professionals and 4,000 law enforcement professionals across the nation.

Grosso leads a vast portfolio: administration; human capital; diversity, equity and inclusion; labor-management relations; personnel security and suitability; senior executive management; employee development; resolution management; emergency management response and recovery; and security and law enforcement policy.

Most recently, Grosso served as vice president, Air Force Programs for Golden Key Group, a professional services firm dedicated to helping federal and commercial clients solve today's strategic, organizational and operational challenges.

She served 32 years in the U.S. Air Force before retiring at the rank of lieutenant general from the position of deputy chief of staff, Manpower, Personnel and Services where she served as the USAF chief human capital officer, chairman of the Army and Air Force Exchange Service's Board of Directors, and chairman of the Defense Commissary Agency's Board. Her command positions include the first DOD tri-service base at Joint Base McGuire-Dix-Lakehurst, N.J., where she led consolidation of 147 installation management functions and the real estate property merger of more than 4,000 facilities.

Honorary Degree Recipients

ALEXANDRA ARNOLD

JUDITH LIGHT (CFA 1970)

Actor/Producer

Doctor of Fine Arts

Judith Light is known for her extensive body of work onstage, as well as in television and film, recently receiving a star on the Hollywood walk of fame.

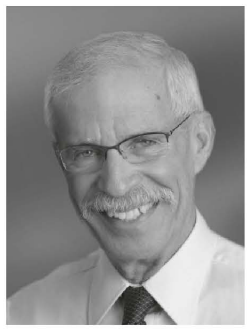
Her current projects include Peter Hedge's film *The Same Storm*, *Julia*, HBO Max's drama series on Julia Child, Starz' horror comedy *Shining Vale* and Searchlight's recent dark comedy *The Menu*, alongside Anya Taylor-Joy and Ralph Fiennes. Light wrapped production on *The Young Wife* and *Down Low* for FilmNation, both of which just premiered at SXSW, and *Out of My Mind* for Disney+. Her 2019 film *Ms. White Light* also premiered at SXSW. She can be seen in the current second season of *American Horror Stories* and Rian Johnson's series *Poker Face* for Peacock.

She is working on a series of producing projects with her production company and Brillstein Creative Partners and is executive producer on the animated short *Aikane*.

Light also co-starred in Ryan Murphy's *Impeachment: American Crime Story* on FX, appeared in Lin Manuel Miranda's film, *tick, tick...Boom!* for Netflix as well as *The Accidental Wolf*, created by Arian Moyad now streaming on Topic.

In addition to her current projects, Light starred in the anthology series *Manhunt: Deadly Games*, which can currently be found on Netflix, as well as Ryan Murphy's Netflix series *The Politician*, and in the musical finale series of *Transparent*, Amazon Prime's Golden Globe–winning show, created by Joey Soloway, for which Light received a Golden Globe nomination and multiple Emmy and Critics' Choice nominations. Her role in Ryan Murphy's *The Assassination of Gianni Versace: American Crime Story* garnered her an Emmy nomination and Critics Choice nomination.

In 2012 and 2013, Light won two consecutive Tony and Drama Desk awards for her performances in *Other Desert Cities* and *The Assembled Parties*; these two performances made her the first actress in nearly two decades to win consecutive Tony Awards. Light also received the 2019 Isabelle Stevenson Tony Award for her extensive philanthropy work. She was recently awarded the Excellence in Media Award from GLAAD in May 2022. Light sits on the board of directors of the MCC Theater in New York.



DAVID S. SHAPIRA

Director, Board of Directors, Giant Eagle, Inc.

Chairman, David S. Shapira Foundation

Doctor of Business Administration

David Shapira joined Giant Eagle in 1970, a company founded by his grandfather with four others. Named president and CEO in 1980 and chairman of the Giant Eagle Board of Directors in 1992, Shapira led the company during its peak years of growth and transformation. During his tenure at Giant Eagle, the company grew from about 30 supermarkets to well over 220 supermarkets and 300 convenience stores. Sales grew to about $10B, which was 30 times what they were when he began as CEO. Since his retirement from the company, Shapira continues to serve on the board of directors.

Shapira is a Pittsburgh native with an undergraduate degree from Oberlin College and a master's degree in economics from Stanford University. Since stepping away from day-to-day operations of Giant Eagle in 2013, he has applied the entrepreneurial approach developed at Giant Eagle to the world of philanthropy. Through the foundation he leads with his wife, Cindy, he has participated in the development of several projects that demonstrate real and meaningful positive impact on civic challenges of our day. These entrepreneurial philanthropic ventures include Onward Israel, which transforms young adults through professional summer internships with Israeli businesses and organizations, the Comprehensive Excellence initiative at Hillel International and 412 Food Rescue, a project developed by a CMU graduate.

Shapira's civic involvement reflects his and Giant Eagle's commitment to advancing and investing in the many communities the company and foundation serve. David has served on numerous corporate and civic boards, including EQT, Mellon Bank, the Allegheny Conference on Community Development and the Pittsburgh Regional Alliance. Shapira is also a past chairman of Carnegie Mellon University's Board of Trustees and a past chairman of its Investment Committee, a Past Trustee at Oberlin College and a founding co-chairman, along with Cindy, of The Pittsburgh Promise Campaign.

Shapira's philanthropic board service has also included: the Jewish Federation of Greater Pittsburgh (Past Chairman); Jewish Healthcare Foundation (Past Chairman); Hillel International (Past Board of Governors Chair); United Way of Allegheny County (Past Chairman of the Annual Campaign); Pittsburgh Symphony Orchestra (Past Chairman); Pardes Institute of Jewish Studies, Extra Mile Foundation, and Pittsburgh Cultural Trust.

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Vice President for Operations

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Dean, School of Computer Science

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† Denotes Carnegie Mellon alumni

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CHEMICAL ENGINEERING
Anne Skaja Robinson, Head of the Department

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Burcu Akinci, Head of the Department

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Jimmy Williams, Executive Director of the Program

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Elizabeth C. Dickey, Head of the Department

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Allen Robinson, Director of CMU-Africa

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Steven Rosenberg, Senior Director of Operations

STUDENT-DEFINED MAJORS
Conrad Zapanta, Associate Dean of Undergraduate Studies

BIOMEDICAL ENGINEERING

BACHELOR OF SCIENCE

The department offers an additional major B.S. degree with each of the five traditional engineering departments. Accordingly, our students are listed within their traditional departments.

MASTER OF SCIENCE

Biomedical Engineering

Maxwell Lewis Adar
Omry Meidar Alfi
Tahlia Aviva Altgold
Wenxin Cui
Swathi Damodaran
Cassandra Dodson
Isha Vishwas Gadgil
Lucas Gil Nadolskis
Shweta Phani Gudapati
Rachel Samantha Hagani **
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Mary Priyanka Jacob
Tejas Kelkar
Ananya Madhav
Nickia Alexandra Muraskin *
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Ellen Otto
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Anirudh N. Rao
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Ashley Josephine Thomas
Daniel Edward Thomeer
Amanda M. Vallon **
Rylee Hannah Wayand
Fernanda Leisner Wenzel **
Jessica Enqi Xu

Biomedical Engineering - Applied Study

Arnav Rajesh Bhat **
Urvee Chitrao **
James Cowan **
Sicheng Dai **
Wangyingshuai Dong **
Dhyaneshwar Gowri Shankar **
Darin Gary Hauner
Kriti Kacker **
Shirley Sanjay Kokane **
Advait Shamsundar Madhekar **
John Landes McNamee **
Mohamed I. Ibrahim Mohamed **
Sushmitha Mohanraju **
Baylie Madison Mook **
Thejasvi Nrupesh Puvvada
Jacob Peter Rast
Jiashu Ren **
Raghav Singhal **
Yu Chi Tsou **
Zixuan Wang **
Ran Wei **
Qichao Wu **
Wenxuan Zhang
Ziying Zhao **
Qijia Zhou **

Biomedical Engineering - Research

Sharadhi Umesh Bharadwaj
Jarrett Anthony Boyd
Mingxi Chen
Bhavya Chopra
Juan Manuel Cortes Leguizamon
Shang Gao
Kian Golestan
Shixuan Gu
Weizhe Guo
Chaniya Jaroenkunathum
Jeehyun Kim
Yuzhang Liu
Haochen Nan

Yunruo Ni
Seo Jeong Sharon Park **
Mangalam Sahai
Samarth Sandhu
Jie Sun
Zitong Wang
Lisha Zeng
Hao Zhu **

Biomedical Engineering and Integrated Study in Computer Science

Hamza Khalid

DOCTOR OF PHILOSOPHY

Deepshikha Acharya **
Neurovascular Coupling and Cerebral Perfusion Pressure—Biomarkers of Cerebral Health
Advisor(s): Jana Kainerstorfer, Matthew Smith

Zhengxiang Cai
Imaging the Epileptic Brain via High-Frequency Oscillations from Multiscale Electrophysiological Analysis
Advisor(s): Bin He

Jiaming Cao **
High Spatio-Temporal Resolution Noninvasive Neuroimaging Using Diffuse Optical Tomography and Electroencephalography
Advisor(s): Pulkit Grover, Jana Kainerstorfer

Erica Marie Comber
Biofabrication of a Fully Biological Gas Exchange Membrane for a Tissue-Based Lung
Advisor(s): Keith Cook, Adam Feinberg

Carmen Fernandez Fisac **
Sensory Constraints on Volitional Modulation of Neural Activity in the Motor Cortex
Advisor(s): Steve Chase

Andrew R. Hudson **
VAPOR Bioreactors for In Vitro Vascularization of FRESH 3D Bioprinted Collagen Tissues
Advisor(s): Adam Feinberg

Jui-Chien Lien *
Responses of Adherent Cells to Uniaxial Cyclic Stretching
Advisor(s): Yu-li Wang

Katrina P. Nguyen **
Dissection of Detailed Motor Behaviors and Circuit Functions of the Basal Ganglia in Health and Disease
Advisor(s): Steve Chase, Aryn Gittis

Daria Strelkova Petersen
Messenger RNA Delivery with Lipid Nanoparticles to Non-Liver Targets
Advisor(s): Kathryn Whitehead

Rui Sun
Deep Learning-Based Source Imaging Improves Spatiotemporal Imaging of Epileptic Sources
Advisor(s): Bin He

Jason Yang **
Non-Invasive Assessment of Cerebrovascular Flow Impedance for Cerebral Autoregulation Monitoring
Advisor(s): Jana Kainerstorfer

Shuai Ye *
Estimating Epileptic Networks with High-Density Electroencephalography and Magnetoencephalography
Advisor(s): Bin He

CHEMICAL ENGINEERING

BACHELOR OF SCIENCE

Chemical Engineering

◆ Avika Bansal
Minor: Biomedical Engineering

◆ Fiona Carcani

Jacklyn Lee Caulkins
Additional Major: Engineering and Public Policy

◆ Samuel Edward Chai

Kevin Tingwei Chang

◆ Connor Andrew Clark

Aaron Donovan Cross
Minor: Colloids, Polymers and Surfaces
Minor: Hispanic Studies

Kristin Shea Daniel
Additional Major: Biomedical Engineering
Minor: International Relations and Politics

Leland A. Davies
Additional Major: Biomedical Engineering

◆ Christian Patrick Deem
Minor: Operations and Supply Chain Management

Emma Rose Destefano

Oluwafayosola F. Dosunmu

Jasmine Fahrenkrug

◆◇ Aaron Garrison

◆ Allison Hunter
Additional Major: Biomedical Engineering

◆◇ Chris Huynh
Additional Major: Biomedical Engineering
Minor: Chemistry

◆◇ Shivank Joshi
Minor: Computer Science

◆◇ Julie Shin Kim
Additional Major: Biomedical Engineering

Sarah Shimileis Korssa
Minor: Operations and Supply Chain Management

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Minor: Biomedical Engineering

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◆◇ Yerim Lee
Additional Major: Biomedical Engineering

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◆ Dante Matteo Mancini
Additional Major: Biomedical Engineering

◆ Liam McDaniel

◆ Alayna Veronica Campisano Mikush
Minor: Biomedical Engineering

Lance Evan Miller
Minor: Operations and Supply Chain Management

Melvin Ofosu-Koranteng
Minor: Environmental and Sustainability Studies

Adrienne Orlic
Minor: Environmental and Sustainability Studies

◆ Olivia Grace Orzechowski

Roshan Paul
Additional Major: Biomedical Engineering

◆ Aidan Lee Pinto
Minor: Economics

Parikshith Ramesh Radhakrishnan
Additional Major: Engineering and Public Policy

◆ Kriya Ramkumar
Additional Major: Biomedical Engineering

◆ Jian Shi
Minor: Biomedical Engineering

Raaga Mahitha Singireddy
Additional Major: Biomedical Engineering

Lucy Taylor Spero

◆ William John Staebel
Minor: Business Administration

◆◇ Harshika Saroja Varadhan
Additional Major: Biomedical Engineering

◆◇ Brian Edward Woolley
Additional Major: Biomedical Engineering

MASTER OF CHEMICAL ENGINEERING

Chemical Engineering

Chloe Nicole Brown
Aaron Garrison
Natali Khalife
Minghao Liang
Benjamin Jacob Pavlat
Alexander Sanchez
Sahil Gajanan Supal
Louis Sheridan Tobergte

MASTER OF SCIENCE

Chemical Engineering

Ambrish Abhijnan **
Arushi Agrawal
Ahmad Sami Hasan Ali
Barak Alotaibi **
Chang Chen **
Yijie Chen **
Drashti Dave **
Faith Bela Francis Dias **
Sourabh Rameshb Guduru

Joelle Jack Guisso **
Minzhuo Huang **
Yuanyi Huang
Tyler Rome Jaffe **
Dev Ajay Kakkad **
Sheena Kapoor **
Sai Madhukiran Kompalli **
Alexander Kroll **
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Sanjana Polavarapu **
Yufeng Qian **
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Anchit Singhal **
Kyle Smith **
Ananya Srivastava **
Ashlesha Tiple **
Sejal Vispute **
Karan Vijay Waghela **
Yicheng Xi **
Yingqi Yi **

Colloids, Polymers and Surfaces

Tabitha Jane Fisanich
Sujana Kalakota
Virginia Lane DiNenna **
Adam David Leventry **
Luyang Liu *
Shipica Uddagiri **

DOCTOR OF PHILOSOPHY

Namit Chaudhary *
Engineering Immunomodulatory Nanoparticles for Safe and Potent RNA Delivery
Advisor(s): Kathryn A. Whitehead

Vibhav Sanjay Dabadghao
Modeling and Control of New and Existing Energy Systems
Advisor(s): Lorenz T. Biegler

Brian Thomas Dinkelacker *
Chemical Transport Modeling of Atmospheric Aerosol at Regional and Urban Scales
Advisor(s): Peter J. Adams, Spyros N. Pandis

Rose Doerfler **
Analysis of Milk Cells and Transport in the Infant
Advisor(s): Kathryn A. Whitehead

Can Ekici *
Optimization Modeling for Advanced Syngas to Olefins Reactive Systems
Advisor(s): Lorenz T. Biegler

Sandra K.W. Fomete *
New Particle Formation from Gas-Phase Sulfuric Acid, Amine and Organic Acid Reactions in Flow Reactors
Advisor(s): Coty N. Jen

Luke Habib *
Using Single Particle Measurements to Track Changes in Multiple Particle Populations
Advisor(s): Neil Donahue

Farrah Arezo Haeri
Molecular Speciation of Organic Nitrogen Compounds Separated in Smoke Particles Emitted from Burning Western US Wildland Fuels
Advisor(s): Coty N. Jen

Peter Robert Hayes *
Detection of Viruses Using Biophysical Properties of Infected Cells for Biologics and Vaccines Testing
Advisor(s): Todd Przybycien, James Schneider

Tsung-Lin Hsieh *
Dynamic Processes of Surfactants at Fluid Interfaces
Advisor(s): Stephen Garoff, Robert Tilton

Kimberly Yuan Hui *
High Resolution Nucleic Acid Electrophoresis by Snagging Mechanisms in Wormlike Micelle Networks
Advisor(s): James Schneider

Mackenzie Humes
Secondary Organic Aerosol Formation From Non-Traditional Sources
Advisor(s): Neil Donahue, Albert Presto

Jack Samuel Johnson
A Nucleation Potential Model for Chemically Diverse Systems in the Atmosphere
Advisor(s): Coty N. Jen

Virginia Lane DiNenna **
Discovery and Detection of miRNA Biomarkers for Viral Infection
Advisor(s): James Schneider

Robert Parker *
Algorithms for Modeling and Optimization of Discretized Differential Algebraic Equations with Application to Chemical Looping Combustion
Advisor(s): Lorenz T. Biegler

Hector David Perez Parra
Methodologies for the Integrated Modeling and Optimization of Digital Supply Chains
Advisor(s): Ignacio Emilio Grossmann

Owais Sarwar *
Algorithms for Interpretable High-Dimensional Regression
Advisor(s): Nikolaos V. Sahinidis

Muhammed Shuaibi *
Generalizable Machine Learning Models for Electrocatalyst Discovery
Advisor(s): Zachary Ulissi

Hua Wang *
Decision-making for Pharmaceutical R&D Project Management
Advisor(s): Chrysanthos Gounaris

CIVIL & ENVIRONMENTAL ENGINEERING

BACHELOR OF SCIENCE

Civil Engineering

◆ Carmen Edna Andrade von Hillebrandt
Additional Major: Engineering and Public Policy

Claire Ashley Chiu

◆ Emerson Kelly Collins **
Additional Major: Engineering and Public Policy

◆ Raahil Divyesh Doshi
Additional Major: Engineering and Public Policy

Bryan Estrada Rivera

◆ Lauren Frances Familetti
Additional Major: Engineering and Public Policy

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Minor: Architecture

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Additional Major: Engineering and Public Policy

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Additional Major: Engineering and Public Policy

Jenna J. Guo **

◆ Grayce Ann Henderson
Minor: Business Administration

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Additional Major: Statistics
Minor: Environmental and Sustainability Studies

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Minor: Global Engineering
Minor: Operations and Supply Chain Management

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Minor: Architecture

◆ Kelby B. Kramer **
Additional Major: Engineering and Public Policy

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Minor: Environmental and Sustainability Studies

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◆ Oscar Montaño **

◆ Elisa Tamra Pinkowitz

William Yukai Qiu **

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Additional Major: Engineering and Public Policy

◆ Madeleine Suzanne Timko
Additional Major: Engineering and Public Policy

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Asha-Anne Tyagi
Additional Major: Engineering and Public Policy

◆ Diana Lyn Warren
Minor: Environmental and Sustainability Studies

MASTER OF SCIENCE

Advanced Infrastructure Systems

Zheyi Li **
Rui Yan Ma *
Zehua Wei **

Civil Engineering

Abigail C. Busse **

Civil and Environmental Engineering

Fatimah Yetunde Adisa **
Jing Cao
Yingqian Cao
Hung-Chieh Chen **
Ivy Mauya Chipinda **
Emerson Kelly Collins
Yutong Duan **
Wanqing Fan **
Bradley Charles Frederick **
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Jiayu Li **
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Siwen Li **
Ying Li **
Yuanhao Li **
Sizhe Ma
Zhe Ma **
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Priyadarshini **
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Jeremy Yin **
Zhenyuan You **
Frank Zhang **
Qiyin Zhang **
Shuyue Zhang
Tong Zhang **
Weiyuan Zhang **
Yuming Zhang **
Wenyan Zheng **
Xuanqi Zheng **
Yijie Zhu **

Civil and Environmental Engineering - Applied Study

Ritika Chopra **
Beau Charles Heakins **
Bowen Hou
Guillermo Nicolas Montero Romero **
Harsh Jagdishku Patel
Xinliang Qu **
Ayush Singh
Claraestela Torres Rivero **

Computational Mechanics

Garrett Dildine **
Siddharth Singh

Environmental Management and Science

Shuochen Wang **

DOCTOR OF PHILOSOPHY

Thiago Augusto Rodrigues
Energy Consumption and Greenhouse Gas Emissions of Autonomous Ground and Aerial Vehicles for Last-Mile Delivery
Advisor(s): Jeremy J. Michalek, Constantine Samaras

Matthew Ernest Battifarano **
System-Level Impact and Behavior of Coordinated Vehicle Fleets in Transportation Networks
Advisor(s): Sean Qian

Byeongseong Choi
Urban Temperature and Electricity Demand: Probabilistic Modeling and Adaptive Decision-Making
Advisor(s): Mario Berges, Matteo Pozzi

Rui He
Modeling of Sustainable Materials Management Systems: Hybrid Science-Based, Data-Driven Approaches
Advisor(s): Mitchell J. Small

Carlos Sahin Hernandez Armas
Decision-Making Tools for the Mitigation of Particulate Matter Health Impacts
Advisor(s): Peter J. Adams

Mina Karimi *
Bayesian Inference of Poroelastic Properties from Induced Seismicity Data Using an Energy-Based Poromechanics Model
Advisor(s): Kaushik Dayal, Matteo Pozzi

Elvin Vindel
Towards Enabling Grid-Interactive Technologies for HVAC Systems in Commercial Buildings
Advisor(s): Burcu Akinci, Mario Berges

Jiaan Wang
Ensuring CO_2 Storage and Groundwater Safety Through Geochemical Monitoring at CO_2 Injection Sites
Advisor(s): Mitchell J. Small

Yanyu Wang
Proactive Improvements of Civil Infrastructure Operations Based on Data-Driven Simulation and Optimization
Advisor(s): Pingbo Tang

Zhuoran Zhang *
Estimating and Mitigating Work Zone Impacts on Crash Risks: Causal Inference with High-Granular Observational Data
Advisor(s): Burcu Akinci, Sean Qian

ELECTRICAL & COMPUTER ENGINEERING

BACHELOR OF SCIENCE

Electrical and Computer Engineering

Karen Johanna Wanek Abruzzo **
Marco A. Acea **
◆ Abhishek Agarwal
Minor: Computational Finance
Minor: Machine Learning
Aditya Agarwal
Devank Agarwal
◆ Divya Aggarwal
Chimdi Alagor
Minor: Architecture
Omar K. Alinur
Nataniel Elias Arocho-Nieves
Edison E. Aviles

- Joseph Ming-Jia Ayala
  Minor: Game Design
  Minor: Human-Computer Interaction
- Mukundh Balajee
- Ankita Bhanjois **
- Vedant Bhasin
- Sirisha Brahmandam
- Ian Bichara Brito
- Ryan Cai
- Angela Chang
  Additional Major: Biomedical Engineering
  Additional Major: Social and Political History
- Shize Che
  Minor: Computer Science
- Akshay Chekuri
- Honghao Chen
- Jeff Hui Chen
- Tianyue Chen
- Likhitha Chintareddy
  Minor: Design for Learning
- Sun A. Cho
  Additional Major: Engineering and Public Policy
- Elizabeth Chuei
  Minor: Psychology
- David R. Cooper
  Minor: Robotics
- Yasser Corzo
- Seaver Matthew Dahlgren
- Kumar Darsh
  Additional Major: Biomedical Engineering
  Minor: International Relations and Politics
- Madeline Cate Davis
  Additional Major: Biomedical Engineering
- Katherine Anne Dettmer
  Minor: Innovation and Entrepreneurship
- Arden Que Diakhate-Palme **
- Allen Ding *
- Iris Peng-Hui Yu Dong
- Yining Duan
  Minor: Animation and Special Effects
  Minor: Japanese Studies
- Sydney Yi Ling Dunn
- Ian Gabriel Falcon Lozada
- Erik William Feldmann
  Minor: Computer Science
- Aden Alejandro Fiol
- Cynthia Xuehan Fu
- Minghan Gang
  Additional Major: Robotics
- Chi Gao
  Additional Major: Robotics
- George Xian Gao
- Dianne J. Ge
  Minor: Computer Science
  Minor: Japanese Studies
- Anna Gerchanovsky
  Minor: Computer Science
- Jack Girel-Mats
- Chester K. Glenn **
- Mehar Harika Goli
  Additional Major: Biomedical Engineering
- Yuqi Gong
  Additional Major: Physics
- Ronald Gonzalez **
- Alejandro Gonzalez Lazaro
  Minor: Japanese Studies
- Sachit Goyal
  Minor: Computer Science
- Ryan Yingkai Guan
- Ayesha Gupta
- Jong Woo Ha **
- Colin J. Hackwelder
- Gustav Hansen
- Logan Herman **
- Christopher Benedict Hess Jr.
- Miya Kiyomi Higuchi
- Thomas Samuel Horton King
- Ting-Hua Hsu
- Claire Yi-Ping Hu
- Ryan D. Huang
  Additional Major: Engineering and Public Policy
- David Ethan Cheng Hwang
- Anju Ann Ito
- Max S. Jantos
  Additional Major: Biomedical Engineering
- Eric P. Jenny
  Minor: Robotics
- Xiao Jin
- Patrick C. Joyce**
- Ankita M. Kalkar
  Additional Major: Robotics
- Youssef Makki Kallel
  Minor: Computer Science
- Meghana Sai Keeta **
- Rahul Khandelwal
  Minor: Business Administration
- Roger Lacson
  Additional Major: Biomedical Engineering
- Aaron Q. Lao
  Minor: Biological Sciences
- Jason T. Ledon
  Minor: Computer Science
- Jeongyun Lee *
- Jiyeon Lee **
  Additional Major: Statistics
- Sophia Anne Li
  Minor: Robotics
- Tianzhuo Li
- Xuanye Li
- Caroline Liu
  Minor: Business Administration
  Minor: Robotics
- Gregory William Joseph Deduque Liu
  Minor: Computer Science
- Kevin Kun Liu
- Shizhen Liu
- Amelia Esperanza Lopez
- Mason K. Loyet
  Minor: Computer Science
- Duc Vinh Luu
- Anita Ma
  Minor: Computer Science
- Parth Maheshwari
  Additional Major: Statistics and Machine Learning
- Rebecca L. Manley
- Vikram Thayu Marmer
  Minor: Biomedical Engineering
- John William Andrade Martins **
  Minor: Chinese Studies
- Zachary Yang Mason
- Juan Esteban Mejia
- Eric Menq
  Minor: Machine Learning
- Anthony Bryant Meza
- Mudit Mishra
  Minor: Business Administration
- Kyle Justin Newman
  Minor: Robotics
- Chi Lan Nguyen
  Minor: Computer Science
- James Ngoc Nguyen **
- Michael Minh Nguyen
- Pengtao Ni
  Additional Major: Japanese Studies
- Anisha Nilakantan
  Minor: Human-Computer Interaction
- Minwoo Oh
  Minor: Music
- Chiebuka S. Ohams
- Caroline Pang
  Additional Major: Human-Computer Interaction
- Prithu Pareek
- Lee Thomas Poirier
  Minor: Robotics
- Chuan Qin
  Minor: Human-Computer Interaction
  Minor: Philosophy
- Rachana Murali Narayanan
- Justin Rager
- Aditi Kidao Raghavan
  Minor: Audio Engineering
- Aditti Ramsisaria
  Minor: Robotics
- Rachel Freeman Ratnam
  Minor: Machine Learning
- James William Ray
  Minor: SCS Concentration in Security & Privacy
- Jon Paolo Farpale Recta
- Alejandro Ruiz
- Omkar Bharath Savkur **
  Minor: Robotics
- Ishraaq Shaikh Shams
- Chen Shen **
- Matthew James Shen **
- Qiaoan Shen
  Minor: Computer Science
- Eshita Shrawan

Karen Meng Song
Minor: Psychology

◐ Sruti Sista Srinidhi
Additional Major: Human-Computer Interaction

◆ Vasudha Srinivasan
Minor: Audio Engineering

◆ Elinora Joan Stoney
Minor: Economics

◆ Alexander Roy Strasser
Additional Major: Robotics

◆ Bojun Sun

Jie Sun
Minor: Computer Science

◆ Linsey H. Szabo
Minor: Machine Learning

◆ Neha Tarakad
Minor: Computer Science

◆ Saral Tayal **

Nii-Okaitey Tetteh
Minor: Ethics

◐ Chalisa Udompanyawit
Additional Major: Biomedical Engineering

◆ Aidan James Wagner
Minor: Computer Science

◆ Nora Yining Wan

◆ William Wang

◆ Brandon Douglas Wei

◆ Eli Wirth-Apley
Additional Major: Biomedical Engineering

◆ Kelly Woicik

◆ Mason Mengchen Xiao
Additional Major: Engineering and Public Policy

◆ Kevin Xie
Minor: Human-Computer Interaction

Jianjun Xiong
Minor: Business Administration
Minor: Linguistics

Mingrui Yang **

◆ Aichen Yao

Lance Coyote Yarlott
Additional Major: Robotics

◆ Rong Feng Ye
Minor: Computational Finance

Jasmine Yew

◆ Serena Jia-Tian Ying **

Bethel Afework Yohannes
Additional Major: Psychology

◆ Bohan Yu
Minor: Robotics

◆ Mae Zhang **

◆ Rita Zhang
Minor: Business Administration

◆ Shiyi Zhang

◆ Sophia Zi-Qi Zhang

Zhuoran Zhang **

Zachary Ian Zhao
Additional Major: Computer Science

Zhichun Zhao

◆ Yuxuan Zhu
Minor: Computer Science

MASTER OF SCIENCE

Electrical and Computer Engineering

Ashwin Reddy Adulla **
Omar K. Alinur
Miquilina Selasie Anagbah **
Nathan W. Ang **
Nikhil Arora **
Saidivya Ashok **
Maxine Adutwumwaa Attobrah
Augustine Ayekor
Mukundh Balajee
Esther Ming Bedoyan
Sebastian Bernal
Christopher Augustine Bernard
Eyerusalem Mamuye Birhan
Albany Julia Bloor **
Kietthibhum Boonchuay
Gustavo J. Camero
Ning Cao
Rene David Carballo
Lupe Christopher Carlos IV **
Krai Chamnivikaipong
Ching-Hsiang Chen
Tianhao Chen **
Jonathan Cheng
David Cheung **
Chidera Neville Chima
Po-Hao Chou **
Leah Faith Chowenhill
Eliana B. Cohen
Siddharth Das
Jonathan Burton Dencker **
Rohan Dhesikan
Ndayisenga Dieudonne **
Taro Doone **
Fangzhou Du **
Ravi Dudhagra
Cagri Erbagci **
Chengyu Fan **
Grace M. Fieni **
William Parker Foy
Zhengsen Fu **
Deborah Grace Gasiza **
Larry Huan Geng
Ryan Michael Gess
Alexander T. Glass
Chester K. Glenn
Ronald Gonzalez
Goran Faisal Goran **
Arvind Shivu Govinday **
Venkata Akhil Guntur
David Hagumuwumva **
Yohannes Tadess Haile
Vital Hakizimana **
Luyao Han **
Haoyang He
Logan Herman
Mae Lin Ying Hoad
Alison Leigh Hoffmann **
Yun Hong **
Jason Hsu **
Claire Yi-Ping Hu
Yu-Chen Huang **
Blaine Michael Huey
Emmanuel Lusenji Imbali **
Eric Ishimwe **
David Ishimwe Ruberamitwe **
Xinye Jiang
Kleber Kabanda **
Bhumika Kapur **
Chinar Kaul
Ermias Mehari Kebede
Ivan Khokhlov
Zayne Corrado Dell'Oca Khouja
Saksham Khurana **
Min Gun Kim
Isaac Chepkurui Kiplel
August M. Kohls *
Valmiki O. Kothare
Dechabhol Kotheeranurak
Malavika Krishnamurthy
Jiyeon Lee
Samuel Leong Chee Weng
An-Chen Li **
Junhan Li **
Shuqing Li
Wei Liang **
Austin L. Lin
Chingyi Lin **
Xiaoran Lin
Zinan Lin *
Kai-Hsiang Liu **
Xinlu Liu **
Yuhao Liu **
Yuxuan Liu **
Zhanghe Liu **
Mabano Yvette **
Jai Madisetty
Ramadas Srinivas Prasad Mahale **
Brighton Mahatchi **
Sasikala Mani
Albert Maniraho **
Madhura Manjunatha **
Rohit Varma Manthena **
Anthony Abel Martinez
John William Andrade Martins
Diva-Oriane Kaur Dhillon Marty **
Adonia Mbarebaki
McKenna McCall **

Leonidas Mugema **
Shreyes Nallan **
James Ngoc Nguyen
Eliane Nirere **
Herschel Sam Norwitz **
Ntwari Gabriel **
Maximillian Obasiolu
Aanuoluwapo Mary Orioke **
Joanne Park **
Zhengyu Qiu
Vignesh Pushpa Rajmohan
Vamsikrishna Srinivas Ratnakaram
Charan Renganathan **
Luis E. Reyna De La Torre
Shanila Reza
Jihoon Ryu
Keshav Sangam
Anushka Saxena
Kaashvi Sehgal
Austin Shaw
Matthew James Shen
Lu Lu Shyr
Zakeus Sinzabankabo **
Alan Maxim Song **
Andrew E. Spaulding **
Vasudha Srinivasan
Elinora Joan Stoney
Hongbo Sun **
Lawrence Tang **
Chad Andre Taylor
Nicholas Toldalagi
Mohammed Ayesh Towheed **
Uyen Phu Hoang Tran **
Jeffrey Tsaw **
Kevin Tu **
Khanin Udomchoksakul **
Edoardo Ughetto **
Lee Waddell
Brandon Christopher Wang
Chien-Hung Wang **
Ethan G. Wang **
Junting Wang
Xinqi Wang **
Sartaj Singh Wariah **
Yuchen Wu **
Yunchieh Janabelle Wu **
Zhaoqi Wu **
Mason Mengchen Xiao
Raymond Xiao
Chen Xie **
Jia Chen Xu **
Ke Xu
Xiaoxiao Xu **
Yan Xu **
Yifeng Xu **
Denise Yang
Yu Yan **
Henry Mintai Yi
Serena Jia-Tian Ying
Joe Chuen George Yu
Yunyang Zeng **
Haoyu Zhang **
Qilan Zhang
Ruiqi Zhang
Sophia Zi-Qi Zhang
Yuchen Zhang
Kaiwen Zhao **
William Zhao **
Siyu Zhou **
Kevin Shawn Zhu

Electrical and Computer Engineering - Advanced Study

Chanhee Cho
Parker Adam Crain
Mingyuan Ding
Ruili Ding
Grey Golla
Yiming Gong **
Shuo Han
Runqi Huang
Siyuan Ji **
Zhihao Jiang **
Xin Jin **
Gore Kao
Hoang Anh Le **
Hongxuan Li
James Jiasheng Li
Xiang Li
Jiaming Liu
Jianhang Liu **
Yifei Liu
Jianyu Mao
Samruddhi Deepak Pai **
Haoyu Pang **
Aditya Suresh Prabhu **
Yuqing Ren **
Zhan Shu **
Fuyu Tang **
Mengxiao Wang
Ziyuan Wei
Eric Xu
Ke Xu
Jingtian Yan
Xinran Yang
Weihao Ye **
Fangcheng Zou

Electrical and Computer Engineering - Applied Advanced Study

Yuying An **
Abhishek Anand
Alok Anand
Tanay Asija
Meghana Balarama **
Xinyu Bao **
Karthik Kiran Bhat
Pranav Shankar Bijapur **
Anudeepsekhar Bolimera
Jiayu Chang **
Ting Chen **
Wei Chen
Yuwen Chen
Zitan Chen **
Zhuoran Cheng **
Li-Wei Chi
Yu Chu
Haoren Deng
Hua Fang
Siddharth Gangadhar
Debayan Ghosh **
Zibo Gong **
Sanjana Goyal **
Jiaqi Guo **
Kelsey Joseph Harvey
Rong Hu
Zhengyu Hu **
Yash Jain **
Nikhil Dinkar Joshi
Sanjana Kandi **
Youjie Kang **
Vignesh Harish Kashyap **
Varsha Kumar **
Nikita Kim
Pranav Manoj Krishnan **
Priyadarshini Kulkarni
Deepshikha Kumari
Yi-Ting Lee
Zhiyuan Lei
Yinan Li
Yuhang Li
Zhongchi Li
Xuyuan Liang
Xiangning Lin
Jiayin Ling **
Lewei Liu **
Minghao Liu **
Yihang Liu
Yue Liu **
Adnan Mohammedi Lokhandwala **
Ningyuan Lu
Haoting Luo

Xinchen Ma
Apoorva Mahajan **
Mohammad Burhan Manzoor **
Ipek Ilayda Onur
Tao Peng
Shreyas Piplani **
Yiluo Qin
Srividhya Radhakrishna **
Vaishnavi Ramsali **
Gaurav Satyanath
Shuoyan Shen
Ziteng Shu **
Dewang Sun
Ke Sun **
Ravi Kiran Vadlamani **
Jiajun Wan **
Heng Wang **
Kecheng Wang
Luyuan Wang
Run Wang
Yanqiao Wang
Yu Wang
Yifan Wu
Yizhen Wu
Xinyue Xie
Ziyi Xie
Dongyang Xu **
Yuyang Xu
Yitian Xue
Fan Yang
Hanlan Yang
Wenxuan Yang
Yihe Yang
Zhanfan Yu
Yanran Zeng
Zhongyuan Zhai
Hao Zhang
Jing Zhang
Weilin Zhang **
Xinman Zhang
Zhengfan Zhang
Zixuan Zhang **
Chenlyu Zhao
Yuhang Zhao **
Haocheng Zheng **
Kaihui Zheng **
Yiren Zheng
Yue Zhou
Haoxuan Zhu **
Jingxin Zhu **
Keyi Zhu
Ziwei Zhu **

Electrical and Computer Engineering - Applied Study

Mohammed Abdulaziz N. Alsakabi
Maheshwara Bhadrappa Nanjundaiah **
Abhishek Bhamidipati **
Ojas Sachin Bhargave **
Yechu Bie
Saloni Rajendra Burad **
Yupei Cao **
Fong An Chang **
Min-Chien Chen **
Ruoyi Chen **
Tianya Chen **
Yanjun Chen **
Zixuan Chen
Haoyu Cheng **
Shounak Shailendra Chepe **
Chung-Lu Chou **
Hsin-Ho Chou **
Yu-Chen Chueh **
Ishan Sandeep Darwhekar **
Guoxiang Deng
Xiaoxing Deng **
Pruthvesh Desai **
Rahul Kishen Dharani **
Soumya Empran **
Chuhan Feng **
PruthviRaj Gampalwar **
Shridhar Ganiger **
Tongxuan Gao
Alberto Garcia Matachana **
Neeraj Suhas Garole
Yash Moreshwar Govilkar
Chakradhar Guntuboina
Xuezhou Guo **
Vikas Kashyap Huvinahally Sureshakumar **
Andrew Philip Jacob **
Swathi Gnaneshwar Rao Jadav
Nan Jiang **
Elvin Johnson **
Akshath Raghunath Karanam **
Plava Satyanaga Kattamuri **
Simrit Kaur **
Rakshitha Krishna Murthy
Mong-Hsun Kuo
Michael Anthony Lawrence **
Joohyun Lee
Alexander C. Li **
Bojiang Li **
Peizhao Li **
Yi Li **
Zekun Li **
Chang Liu **
Guan-Ying Liu
Xinlue Liu **
Yilin Liu **
Ying Luo **
Ning Lyu **
Nikhil Madaan **
Balamurugan Marimuthu **
Jeneel Vikram Mashru **
Parth Vipul Mehta
Navya Shree Nagendra Rao **
Adithya Nataraja Sundaram **
Rohan Panda **
Rohan Deepak Paranjape
Shaival Chetan Parikh **
Nikhil Minesh Patel **
Kexin Pei **
Sean C. Pogorelc
Nishant Arun Poorswani **
Qi Qian **
Yuzheng Qian **
Shaofeng Qin **
Tianxu Qin **
Anusha Raghavendra
Harini Ramprasad **
Sneha Anil Rander **
Ajinkya Sureshkumar Raut
Akshay Revankar **
Syeda Sheher Bano Rizvi **
Mukul Yatin Sakhalkar **
Agastya Sampath
Aakriti Manoj Saraf
Arjun Sengupta **
Zixin Shen **
Genhao Shi
Xupeng Shi **
Shalini Shukla **
Andrew D. Siemer **
Carolene Priscilla Siga **
Shubhranshu Singh **
Aparajith Srinivasan **
Shreya Srivastava **
Tejas Srivatsav **
Changsheng Su **
Yung-Tai Sun
Mingxuan Tang **
Yuan Tang **
Rakshit Tikoo **
Sri Lakshmi Venkata Vemulapalli
Ganesh Venkatachalam
Ashwin Venkatram
Lakshay Virmani
Madhav Mahendra Wagh **
Jingheng Wang
Liang-Chun Wang **
Mujing Wang
Rui Wang **

Ting-Yu Wang **
Yihao Wang **
Yujia Wang **
Zefeng Wang **
Ziwei Wang
Umang Nitin Wani **
Ting Wu **
Zhaobang Wu
Haoxiang Xu **
Zixiao Xu
Xingji Yan **
Hao Yuan
Heng Zhang **
Xuan Zhang **
Yanyan Zhang **
Yuxin Zhang **
Yi-Yu Zheng **
Yiren Zhou **
Chaojiang Zhu **

Software Engineering

Fu-Chi Ao **
Caio Augusto Cruz Araujo
Kaiwen Bian
Hui-Chun Chieh **
En-Hsien Chou
Caleb Ben Christiansen
Andrew Gordon Colello
Hung-Kuang Han **
Donglai He **
Xinchen He **
Hao-Chen Hsieh **
Pei-Lun Lee **
Chia-Wei Lin **
Chin Chen Lin **
Zizhen Liu **
Sijie Luo **
Taige Sun **
Jordan Tsao
Michael Lamin Vandi
Bingwei Wang **
Yiou Wang **
Zhifan Wang **
Han-Yun Yeh **
Jing Yu **
Bilun Zhang **
Yufei Zheng **
Armando Zhu

Software Engineering - Applied Study

Kheng Wei Ang
Shi Bai **
Di Bu
Fanglei Cai
Yu-Chien Chang
Xiangjie Chen
Zhaoyu Chen **
Chia-Hao Cheng **
Zishuo Ding
Houyi Fan **
Ziqian Ge **
Xinyue Han **
Yangrongrui He **
Yusheng Hu
Ruoyu Hua **
Chun-Hao Huang **
Jiun-Hao Jhan
Chuang Ke **
Yihan Kong **
Kunyi Lai **
Brendan Terrance Lam **
Yanhui Lan **
Maojingjing Li
Zhaoqing Li **
Zishuai Li **
Yi-Ting Lin
Xinrui Liu **
Hsin-Yu Lu
Yunlu Ma **
Yuzhi Ma **
Arthur Pierre Gilbert Micha **
Pinzhi Ni
Hwan Park **
Chung-Lin Pei **
Hsuan-Wen Peng
Xiaoxiao Qin **
Tzuhsiang Su **
Yixin Sun
Chong Tan
Zhanming Tian **
Chang-Ning Tsai **
Karen HaoYi Tu
Jason Wahjudi **
Tiankai Wang **
Xukun Wang **
Zihan Wang
Zixuan Wang **
Chenglin Wei
Zihan Wei
Shin-Yu Wey **
Annabel Rose Winters-McCabe
Bowen Xiao **
Haichuan Xu
Yanning Xue *
Chi-Pin Yeh **
Anyuan Yu **
Dezhi Yu **
Jingjing Yu **
Haoran Zhang **
Jiadong Zhang
Shuran Zhang **
Zhongman Zhang **
Muhan Zhao **
Yuean Zhao
Cheng Zheng
Minghao Zhu **
Yong Zhu **

DOCTOR OF PHILOSOPHY

Artur Balanuta **
Improving Low-Power Wide-Area Networks (LP-WAN) Through Network-Centric Extensions
Advisor(s): Antonio Grilo, Anthony Rowe

Maia P. Blanco
Hardware-Software Implementations of Graph Algorithms
Advisor(s): Tze Meng Low

Alireza Chaman Zar *
Localization and Tracking of Neural Silences in the Brain
Advisor(s): Pulkit Grover

Mark Cheung **
Geometric Deep Learning: Impact of Graph Structure on Graph Neural Networks
Advisor(s): Jose Moura

Danielle Duvalsaint *
Measuring Security Metrics of Locked Devices with Test
Advisor(s): Shawn (R.D.) Blanton

Carmel Lani Fiscko
Modeling, Analysis and Design of Influence in Multi-Agent Systems
Advisor(s): Soummya Kar, Bruno Sinopoli

Jordan S. Ford
Exploration Planning and Incremental Modeling for Autonomous Microrover Exploration of Planetary Pits
Advisor(s): William L. Whittaker

Chen Fu **
3D Object Detection with Depth Completion for Autonomous Driving via Camera and LIDAR Fusion
Advisor(s): John M. Dolan

Akshay Sanjay Gadre *
Rethinking Low-Power Wide-Area Networks on Earth and Space
Advisor(s): Swarun Kumar

Evren Ahmet Gokcen
Disentangling Communication Across Populations of Neurons
Advisor(s): Byron Yu

Paul Matthew Griffioen *
Resilient Cyber-Physical Systems
Advisor(s): Bruce H. Krogh, Bruno Sinopoli

Yi Hua
3D Lensless Imaging—Theory, Hardware and Algorithms
Advisor(s): Aswin Sankaranarayanan

Ahmet Fatih Inci *
Scalable and Efficient Systems for Deep Learning
Advisor(s): Gauri Joshi, Diana Marculescu

Yasin Karimi Chalmiani **
In Situ Spatiotemporal Patterning of Light Using Ultrasonic Virtual Tunable Optical Waveguides
Advisor(s): Maysam Chamanzar

Boyue Li
Communication-Efficient Optimization Algorithms for Decentralized Machine Learning
Advisor(s): Yuejie Chi

Yi-Chung Lin *
Patterned ALD Sidewall Metallization on CMOS MEMS and Applications
Advisor(s): Gary K. Fedder

Zinan Lin
Data Sharing with Generative Adversarial Networks: From Theory to Practice
Advisor(s): Giulia Fanti, Vyas Sekar

Wenbo Liu **
Identifying Children Autism Spectrum Disorder via Machine Learning-Based Behavior Analysis
Advisor(s): Bhiksha Ramakrishnan

Ankur Mallick *
Probabilistic Methods for Mitigating Uncertainties in Large-Scale Computing and Machine Learning
Advisor(s): Gauri Joshi

Mohammad Ayaz Masud **
Phase Change Nanoelectromechanical (NEM) Relay for Nonvolatile, High-Density Memory Application
Advisor(s): Gianluca Piazza

McKenna McCall
Information Flow Control for Dynamic Reactive Systems
Advisor(s): Limin Jia

Hun Namkung
Enabling Practical and Performant Sketch-Based Network Telemetry on Programmable Switches
Advisor(s): Vyas Sekar, Peter Steenkiste

Yuwei Qin *
Machine Learning-Based Data Detection Channel for Two-Dimensional Magnetic Recording System in Hard Disk Drives
Advisor(s): Jian-Gang (Jimmy) Zhu

Emily Kathryn Ruppel *
Peripheral and Power Management in Batteryless, Energy-Harvesting Systems
Advisor(s): Brandon Lucia

Zachary Aaron Schaffer
Overmoded Bulk Acoustic Resonators for mmWave Filtering
Advisor(s): Gianluca Piazza

Abir Shadman **
Formation and Dynamics of Chiral Soliton
Advisor(s): Jian-Gang (Jimmy) Zhu

John Shi **
A Dual Domain Approach to Graph Signal Processing
Advisor(s): Jose Moura

Weijing Shi *
Towards Efficient Point-Cloud Object Detection on Autonomous Vehicles
Advisor(s): Ragunathan Rajkumar

Naeem Turner Bandele
A Steady-State Risk Analysis and Mitigation Framework for Power Systems
Advisor(s): Lawrence Pileggi, M. Granger Morgan

Tyler Minhtu Vuong
Incorporating Modulation Information Into Deep Neural Networks for Robust Speech Processing
Advisor(s): Richard Stern

Jianyu Wang *
Theory and Algorithms for Communication—and Computation—Efficient Federated Learning
Advisor(s): Gauri Joshi

Jingxian Wang *
Blind Wireless Beamforming to Power, Cook and Move
Advisor(s): Swarun Kumar

Yangyang Xia
Phonetically-Guided Speech Enhancement Using Deep Neural Networks
Advisor(s): Richard M. Stern

Ran Xin *
Decentralized Non-Convex Optimization and Learning over Heterogeneous Networks
Advisor(s): Soummya Kar

Guanglin Xu
An Approach to Generating Customized Load-Store Architectures
Advisor(s): Franz Franchetti, James C. Hoe

Yan Xu **
Joint Reasoning for Camera and 3D Human Pose Estimation
Advisor(s): Kris Kitani

Wenbo Zhao *
Computational Models for the Forensic Analysis of Human Voice
Advisor(s): Rita Singh

Yutong Zheng **
Towards Face Recognition with Imbalanced Training Data: From Loss Function Design to Deep Generative Models
Advisor(s): Marios Savvides

Yuezhang Zou
Low Voltage Compositionally Tailored Selector Devices for Crossbar Memory Arrays
Advisor(s): James A. Bain

Jinhang Zuo **
Combinatorial Multi-Armed Bandits in Competitive Environments
Advisor(s): Carlee Joe-Wong

ENGINEERING & PUBLIC POLICY

BACHELOR OF SCIENCE

The department offers an additional major B.S. degree in Engineering and Public Policy with each of the five traditional engineering departments and in Science, Technology and Public Policy with other departments. Accordingly, our students are listed within their traditional departments.

MASTER OF SCIENCE

Engineering and Public Policy

Abdulrahman Saad Al Moaamer **
Mohammed Abdullah AlGhufaili **
Abigail M. Berger
D'Nae Ferguson **
Jonathan Gordon
Michio Ward Hayashi **
Elina Sophie Hoffmann **
Lydia Judith Hu **
Andrew Joshua Jones Jr.
Weikai Lu
Lucy Bernstein Norton
Samantha Cavanaugh Phillips **
Rahul Das **
Jacob Smith
Maxwell Richard Sprigg-Dudley

DOCTOR OF PHILOSOPHY

Angelena Bohman **
Investing in Power System Resilience: A Mixed Methods Approach to Assessing the Tradeoffs of Resilience Strategies
Advisor(s): Ahmed Abdulla, Granger Morgan

Emily Grayek **
A Decision Science Approach Towards Improving the Study of Adherence Information
Advisor(s): Baruch Fischhoff

Nyla Naseem Khan **
Analyzing Production, Recycling, and Supply Chain Risks for Battery Minerals in Electric Vehicles and Stationary Storage
Advisor(s): Paulina Jaramillo, Jay Whitacre

Dini Maghfirra
Equitable Deployment of Microhydro Power and Solar Photovoltaic to Provide Universal Electricity Access in Rural Indonesia
Advisor(s): Jared L. Cohon, Granger Morgan

Aniruddh Mohan *
Technology Policy Challenges of Electric and Automated Vehicles
Advisor(s): Parth Vaishnav, Venkat Viswanathan

Joan Nkiriki
Energy Access and Climate Mitigation: Impacts on Technology Choice, Emissions, and Costs in East Africa
Advisor(s): Paulina Jaramillo

Peter Tschofen
Essays in Pollution Accounting
Advisor(s): Nicholas Z. Muller

Charles Nanabanyin Van-Hein Sackey
Sustainable and Just Pathways Towards Universal Electrification in Sub-Saharan Africa
Advisor(s): Destenie Nock

Logan Edward Warberg *
Evaluating Behavioral Interventions for Privacy Decisions
Advisor(s): Alessandro Acquisti, Douglas Sicker

Emily M. Wells **
Explorations of Adaptive Resource Use and Technology Choice: Individual and Institutional Perspectives
Advisor(s): Mitchell J. Small, Gabrielle Wong-Parodi

Dian Yu
Government Driving Entrepreneurship and Product Innovation: The Case of the Global Commercial Drone Industry
Advisor(s): Daniel Armanios

INFORMATION & COMMUNICATION TECHNOLOGY

MASTER OF SCIENCE

Engineering Artificial Intelligence

Oluwadara Peter Adedeji
Opeyemi Christiana Ajayi **
Deogratias Amani
Yonas Gebeyaw Chanie **
Moayad Hassan Mohamed Elamin **
Paul Chimauchem Ewuzie **
Patrick Fashingabo
Medhn Hadush Gebreegziabhar
Isaac Hitimana
Geoffrey Ndung'U Kimani
Nduati Kuria
Emmanuel Nisingizwe Ndayisaba
Henslaac Lionel Ndlovu
Jean De Dieu Niyonteze
Sylvan Ntivuguruzwa
Samiratu Ntohsi **
Heredion Nzabanita
Thon M. Garang Ok
Muhammad Abdulghaffar Omer
Peter Oluwapelumi Owoade **
Cyriaque Zirimwabagabo

Information Technology

Seth Abayo
Deji Habeeb Adebayo **
Kanyankore Mucyo Arnaud
Tsion Girma Assefa
Philbert Bahati
Fabrice Basenga **
Furaha Saleh Benedict
Maurice Bigirimana **
Fidelis Liambee Bologo **
Dona Gracia Junias Bonou **
Christian Kojo Bosso **
Theoneste Byagutangaza
Yves Byiringiro
Trevor Henry Chiboora **
Joselyne Dusabe
Gloria Dusenge
Daniel Chukwunonso Emesiani **
Mohamed Alimamy Fofanah
Clement Robert Habimana
Yves Jean Habimana
Rose Mary Happiness
Arlette Bidossessi Houndji
Gladys Inabeza
Ange Ernestine Iradukunda
Emmanuel Iradukunda
Patrick Iradukunda
Jacques Iragena
Anny Carella Irumva
Egide Isabwe
Patrick Ishimwe
Christian Ituze
Joyeuse Kabera
Stella Kaniaru **
Noelle Marie Kanyamuneza
Happiness Karigirwa
George William Kasaazi
Jonathan Kayinamura
Divin Kayitare
Joseph Kimbugwe **
Bernard Odartei Lamptey
Nafiu Lawal **
Mohamed Khalil Liouane
Pierrette Mahoro Mastel
Dan Majyambere
Cedric Pascal-Emmanuel Manouan
David Manzi **
Patrick Manzi
Patrick Mazimpaka
Joseph Mdumuka
Pax Elisee Mfura
Arisema Mezgebe Mihretu
Gladys Isimbi Wase Mpayana
Ian Mururu Mugambi
Mugiraneza Himbaza Yves **
Felix Mugire
Arsene Igirimbabazi Muhire
Ruth Mukamutara
Aime Munezero **
Everlyn Nzilani Musembi **
Prince Shema Musonerwa
Juvenalis Mujivane Musungu
Justin Mutabazi
Patrick Mutabazi
Janet Mutesi **
Susan Wanjiru Muthoni **
Brice Mfuranzima Muvunyi
Tyson Ntwari Muvunyi
Victor Kibuth Mwangi
Remy Patrick Mwizerwa
Fabrice Mwizerwa Kabanda
Ester Namara
Mutungwa John Cliff Ndabunguye
Honore Peter Joy Ndayishimiye
Clement Nduwimana
Fabien David Ngabo
Tresor Ngabo
Robert Ngabo Mugisha
Shalon Ngigi
Mathias Ngwa Ngong Ngai
Elie Niringiyimana
Jean Paul Nishimirwe **
Alice Gatera Niwemutoni
Patrick Niyomwungeri
Nadia Lorraine Niyonsaba
Clement Nizeyimana
Catherine Wambui Njogu
Olivier Nsanzabega
Jean Nshuti
Yussuf Pappy Ntawiheba
Sunday Jacob Nwanyim
Yvonne Nyinawumuntu
Samuel Oladele Olu-Alaofin
Ofentse Phuti
Esther Poli
Kagame Richard **
Belyse Umunyana Rugangazi
Marius Robert Rwandarushya
Erick Laurence Semindu
Loic Shema **
Aymar Donald Shemeza
Maxmillian Richard Shetto
Sandra Ineza Sinzi
David Sunday
Comfort Tenjier **
Kwaku Tsyops
Venant Tumukunde
Benny Uhoranishema
Elisabeth Ujeneza
Germaine Umutoni
Diane Uwase
Maliki Uwase
Uwimana Jean de Dieu **
Alice Uwimbabazi
Elie Kayitare Uwiringiyimana
Sandrine Uwituze
Jules Zirikana

INFORMATION NETWORKING INSTITUTE

MASTER OF SCIENCE

Information Networking

Youwei Chen **
Zhichao Chen **
Hehui Gu **
Mufei Han **
Sheng Jin **

Haoran Qian **
Qiuhan Sun **
Linying Yu **
Yifan Zeng
Ruolin Zhang **

Information Networking - Advanced Study

Tianxiang Lin

Information Networking - Applied Advanced Study

Sindri Pall Andrason
Zhengjia Cao
Zhifeng Fu **
Tianjian Huang
Zhuoyu Ji
Minhao Jin **
Jiarui Li
Shouxu Lin **
Kun Liu
Yuqi Mao
Lai Qian **
Srinidhi Rudrapatna Murali Kaushik
Ruobing Wang
Zeyu Wang
Xiaoli Xi
Liangdong Xu **
Xiaofeng Yan

Information Networking - Applied Study

Kanishka Bandaru **
Thomas Wladyslaw Bednarz **
Yifan Cao **
Bhakti Chaudhari **
Yiran Che **
Po-Wen Chen **
Rui Chen **
Yijun Chen **
Yuhong Chen **
Zongnan Chen **
Xiaoxuan Cui
Zongxiang Deng **
Supreet Shripad Deshpande **
Samvid Dharanikota **
Raunak Gopal **
Chuqiao Gu
Li Guo **
Yuzhe Guo **
Naman Gupta **
Chen He **
Di Hu **
Yucheng Hu **
Xinmian Huang **
Rong Jin **
Zhexin Jin **
Rohan Kanotra
Varun Kathuria **
Yen-Li Laih **
Chenhao Li **
Pei Li **
Qiaoyan Li **
Qijia Li **
Wangshu Li **
Zewen Li
Zhenhua Li **
Junfeng Lin **
Kuan-Yu Lin **
Ting-Hao Lin **
Wei-Wei Lin **
Tianrui Liu **
Zhuoran Liu **
Yiting Lu **
Bingchan Ma **
Qicheng Ma
Aabhas Mathur **
Monika **
Siyu Niu **
Shih-Cheng Peng **
Xuan Peng **
Karthik Ramanathan **
Sihao Ren **
Wenting Shi **
Adarsh Sreedhar **
Nishanth Subramanian **
Haorong Sun **
Wei-Ting Tang **
Akhil Udathu **
Yash Lalit Vanjani **
Feiyang Wang **
Haoran Wang **
Haoyang Wang **
Qinqi Wang **
Xingzhi Wang **
Yiyun Wang **
Zijiao Wang **
Ziyi Wang **
Fangjian Wu **
Sheng-Hao Wu **
Xintong Wu **
Yida Wu **
Yuling Wu **
Zheng-Lun Wu **
Huilin Xiong **
Siqi Xiong **
Sihui Xu **
Xiaochuan Xu **
Zeqiu Xu **
Longyu Yang **
Zican Yang **
Jingyuan Yi **
Jingzhi Zhang **
Shijie Zhang **
Yingqi Zhang **
Ning Zhao **
Jinan Zhou **
Chongling Zhu **
Jicheng Zhu **
Shuwen Zhu **

Information Security

Matthew F. Coates **
Nidhi Girish
Henry Lawrence Campbe Howland **
Harrison B. Leinweber
Anusheh Zohair Mustafeez
Richard Worthy **

Information Security - Applied Advanced Study

Faisal Husain Abubaker Binmahfoudh
Arshi Chadha **
Anvita Chandrakar **
Joshua Clay Inscoe
Vishruti Jignes Kakkad
Akshay Katheria
Ujvala Kollipara
Xiaoyi Li
Yuting Lu
Hitarth Apurvabhai Shah
Suma Sree Thota
Dillon Wu
Siqi Xie
Yifan Zhuo

Information Security - Applied Study

Priyanka Sandip Abhang **
Abhishek Agarwal **
Adarsh Agarwal **
Neel Hiteshbhai Bhavsar **
Saiteja Chodavarapu **
Darshil Kalpesh Desai **
Leon Feldmann
Malik Hancock
I-Jen Hsiao **
Xinyi Hu **
Phoebe Hughes
Venkata Abhishek Kanthuru **
Sevag Zadig Keosseian **
Asparsh Kumar **
Naina Kuruballi Mahesh **
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Kevin Li **
Ariana Mims

Kuber Nandwani **
Daniel Alan Pagan **
Kalyan Parajuli **
Patel Kirtan Darshankumar **
Benjamin Daniel Pirkl **
Sai Sushmitha Sanduri
Abhilash Trehan
Peter Wang **
Shih-Hung Wang **
Yu-Su Wang **
Hunter Wodzenski **
Hanjie Wu
Jiaqi Wu **
Yinyue Wu **
Xiangfeng Yuan **
Jinze Zhang **

Information Technology - Information Security (Kobe)

Mengmeng Liu *

Information Technology - Information Security - Advanced Study

Bolor-Erdene Jagdagdorj

Information Technology - Information Security - Applied Advanced Study

Yebo Cao
Harshvardhan Narendrakumar Chunawala **
Sihan Ding
Xuchao (Steven) Jiang
Palash Oswal
Prerit Pathak
Pronoy Roy
Aviral Sharma **
Keerthi Samhita Vempatti Venkatanaga
Xinyin Zhang **
Gregory Daniel Ziegler

Information Technology - Information Security - Applied Study

Noora Ahmed Alfayez
Sanjnah Ananda Kumar **
Akshyan Anandakrishnan
Adithyan Arun Kumar **
Prerna Bothra **
Zale de Jong **
Qing Deng **
Wenjie Dong **
Junhan Duan **
Nithin Ram Gomatam Vasudevan **
Sravani Gorthi **
Vaanya Gupta **
Xinyue Han **
Yanwen Huang **
Malik Ali Hussain **
Georgios Ioannides **
Naveen Joshy John **
Tomohiro Kimura **
Kaustubh Kumar **
Bryan C.W. Lin **
Veera Venkata P. Maddula **
Harshit Sushil Maheshwari **
Ayushi Suresh Mehta **
Chujie Meng **
Nikita Mishra **
Keeravani Nagula **
Navin Thomas Olakkattu **
Gerard James O'Rourke **
Gowthamaraj Rajendran
Gowri Sunder Ravi **
Keshava Srinivas **
Nishant Rajesh Tayade **
Madhuvantthy Vanamamalai Pakshiraj **
Yu-Hsin Wang **
Dezhang Wen **
Weijia Yan

Mobile and Internet of Things Engineering

Phillip Yang **
Mingyu Zhang **
Yiwei Zhang **

Mobile and Internet of Things Engineering - Applied Advanced Study

Li Cai **
Mingzhi Cai
Li-Yang Chang
Ruimeng Chang
Anran Du
Angela Gu
Chengwei Guo
Du Huang
Adrian Thomas Jenkins
Yifan Lan
De-Yau Li
Taiqing Ling
Chen Lu
Tongxin Niu
Hamsini Ravishankar
Fu Tan
Zeean Salim Veljee
Yuanlin Wu **
Chenxi Zhang **

Mobile and Internet of Things Engineering - Applied Study

Gabriella Ayala **
Haoran Bai **
Yuyue Chen **
Hao Ding **
Yu Dong **
Meishuanglong Gao **
Tianxiang Gao **
Jianye Geng **
Tingxuan Gu **
Alisha Joshi **
Canchen Li **
Mohan Li **
Yukun Li **
Yuwei Li **
Yizhou Liu **
Kishore Kumar Perumalsamy **
Zongyue Pu **
Qingyang Shi **
Ziniu Wan **
Tao Wang **
Yuchen Wang **
Yingchu Xin **
Mengyao Xu
Chun-Yu Yeh
Wen-Ting Yeh **
Lu Yu **
Peiyang Yu **
Xinran Yu
Peixin Zhao **
Mengdi Zhu **
Jingsi Zou **

INTERDISCIPLINARY STUDIES

BACHELOR OF SCIENCE

General Studies

Maame Efua Conduah
Minor: Engineering Studies

MASTER OF SCIENCE

Energy Science, Technology and Policy

Shaunt Michael Attarian
David Wallace Raymond Cohen
Lucas Godshalk **
Marilyn Y. Kung
Mohammad Mohammadi
Alexander C. Newkirk
Ziyi Zeng

Energy Science, Technology and Policy - Advanced Study

Rahul Jha **
Junyi Lu **
Peng Sang **
Yamhir Yabar Viggio **

Energy Science, Technology and Policy - Applied Advanced Study

Sagar J. Bharadwaj **
Prathit Dave **
Sruthi Mahalakshmi Easwaran **
Lih-Shyan Fang **
Gokul Krishnan **
Shaofeng Ouyang **
Zulkifli Palinrungi
Manish Sainani **
Madhumithaa Vellingiri
Jeffrey Lu Yin **

Energy Science, Technology and Policy - Applied Study

Akash Sureshbhai Prasad **

Engineering and Technology Innovation Management

Mansi Agrawal **
Akshay Anand **
Maxine Adutwumwaa Attobrah
Patrick Bem
Yongqi Cai **
Rene David Carballo
Ching-Hsiang Chen
Yimin Chen **
Leah Faith Chowenhill
Tejas Nanasaheb Dighe **
Yiqun Fu **
Ziwei Guo **
Bowen Hou
Mary Priyanka Jacob
Shuhe Jiang **
Kristine Elise Johnson **
Tejas Kelkar
Risheekesh Kesavan **
Vaihita Reddy Kondamareddy **
Mengyu Liu **
Subrahmanya Vivek Mavilla **
Gopika Nayak **
Maximillian Obasiolu
Oluwagbemisola Ayooluwa Olugbenle
Camila Maria de Lourdes Pagan Santiago
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Junmo Qu **
Shashank Rajashekar
Saurabh Rane **
Olga Namara Rwemereza
Alexander Sanchez
Sujay Shah
Sanya Sharma **
Nyomor-Da Tackie-Yarboi **
Ashley Josephine Thomas
Quinton S. Thomas
Edoardo Ughetto **
Daksh Verma **
Karan Jayesh Vora **
Lee Waddell
Devin Ellis White
Wei Wu
Xiaoyou Xia **
Zhongtian Xia **
Jessica Enqi Xu
Zeda Xu **
Yu-Tsen Yi
Jieliang Yin **
Weiyuan Zhang **
Wenhan Zhou
Shuli Zhu **
Zuo Siyuan **

MATERIALS SCIENCE & ENGINEERING

BACHELOR OF SCIENCE

Materials Science and Engineering

◆ Caroline Appel Barkman
Minor: Biomedical Engineering
Minor: Chinese Studies
Erick Chavarria
◆ Larry Liangyu Chen
Minor: Chinese Studies
Minor: Electronic Materials
◆ Jared Scott Cohen
Additional Major: Biomedical Engineering
Matthew Lawrence Frame
Minor: Electronic Materials
Alan Gallardo
Additional Major: Biomedical Engineering
Brian Michael Gormley
Additional Major: Biomedical Engineering
Gavin Mark Grnja
Additional Major: Creative Writing
◈ Alice Ho
Minor: Electronic Materials
Lucian Hodor
Minor: Computer Science
Zaria J. Johnson
Additional Major: Biomedical Engineering
◆ Sun Ho Kim
Leon Lai
Additional Major: Biomedical Engineering
◆ Yiyang Lai
Minor: Physics
◆ Kacy Liang
Additional Major: Biomedical Engineering
◆ Ziyao Luo
Minor: Machine Learning
Minor: Physics
◈ Claire Marlowe
Minor: Electronic Materials
Peter Nell
Abigail Achieng Ngowe
Minor: Biomedical Engineering
◈ Rohan Anand Parekh
Additional Major: Chemistry
Chanyoung Park **
Mia Yoko Ritter
Additional Major: Biomedical Engineering
◈ Justin Seungchan Ryu
Additional Major: Engineering and Music
Minor: Animation and Special Effects
Minor: Global Systems and Management
◈ Hance Su
Minor: Electronic Materials
◆ Adeyemi Rahim Uthman
Minor: Biomedical Engineering
◆ Chu Chuan Wu
Minor: Economics
◈ Daniel Zachary Xiao
Minor: Electronic Materials
Minor: Physics
◆ Tyler Heng Zhang

MASTER OF SCIENCE

Additive Manufacturing

Nicolas Alejandro Acero-Blyshak **
Xingyang Li **
Francisco Javier Madera
Peter M. Pak
John Valentine Smith

Computational Materials Science and Engineering

Po Jui Chu **
Kyle Scott Farmer **
Shiqing Ma **
Adesh Rohan Mishra **
Kehan Tang **
Siyu Wang **
Changwen Xu **
Yi Yang **
Wenqian Zheng **

Materials Science

Kefei Bao
Han Chien **
Nattavipa Chongvimansin
Wenda Deng
Yafeng Hu
Xiaozili Huang **
Yue Jian **
Quanliang Liu **

Lucero Lopez
Rigved Pravin Sardey **
Szu-Wei Tung
William Tzou
Jiashuo Wang **
Hanshu Wu
Zhenhao Wu
Jiaguo Yin
Yi Yuan
Kun Zhang
Qian Zhang **
Kaiji Zhao **
Yongtai Zhao **
Bozhong Zhuang

Materials Science and Engineering

Andrew Aumen
Matheus Balen *
Larry Liangyu Chen
Xiaoyu Chen
Thiago Andre de Oliveira **
James Chinyere Egbu Jr. **
Nnamdi Ene
Charles Evans
Rongkun Gao
Jhoan Sebastian Guzman Hernandez *
Rajib Halder
Ashish Pravin Karle **
Sun Ho Kim
Zijian Liu
Jonathan Locker
Durva Arun Naik
Eric Palermo
Anqi Qiu **
Alec Sanabria **
Andrew Inigo Michael Caldwell Santiago **
Min Tang *
Emily Trotto
Gregory Daniel Wong
Muyuan Xie **
Yu-Tsen Yi
Hongtao Zou

DOCTOR OF PHILOSOPHY

Joseph W. Aroh
Solidification Pathways in Stainless Steels: The Influence of Composition and Processing Conditions
Advisor(s): Anthony D. Rollett

Steven Thomas Britt *
Fundamental Interactions of Glassy Carbon Graphite with Liquid Fe-C and Fe-Ti-C-N
Advisor(s): P. Chris Pistorius

Sven Anders Burke **
Cobalt-Free Lithium Excess Nickel Manganese Oxides as Cathode Material for Lithium Ion Batteries
Advisor(s): Jay Whitacre

Ryan Cohn *
Computer Vision and Deep Learning for Microstructural Modeling and Automated Characterization of Materials
Advisor(s): Elizabeth A. Holm

James Chinyere Egbu Jr.
Surface Oxidation, Crystallization, Wetting and Magnetic Properties of FeNi-Based Metal Amorphous Nanocomposites
Advisor(s): Michael E. McHenry

Elizabeth Victoria Favela
Investigation of Processing and Annealing Conditions of Ohmic and Schottky Contacts on β-Ga2O3 with Enhanced Electrical Characteristics
Advisor(s): Lisa M. Porter

Stephen Daniel Funni
Resolving Local to Mesoscale Order in Incommensurate Tetragonal Tungsten Bronze Ceramics by Scanning Transmission Electron Microscopy
Advisor(s): Elizabeth C. Dickey

Andrew Joseph Huck *
Non-Metallic Inclusion Generation and Evolution in Specialty Steelmaking Processes
Advisor(s): Bryan A. Webler

Hokon Kim
Simulations of Activity and Degradation in Solid Oxide Fuel Cells as a Function of Electrode Microstructures
Advisor(s): Anthony D. Rollett, Paul A. Salvador

Michael Dornu Kitcher *
Consequences of Reduced Symmetry in Chiral Magnetic Thin Films
Advisor(s): Marc De Graef, Vincent Sokalski

Venkatesh Krishnamurthy **
On the Discharge Mechanism in Li-CFx Batteries
Advisor(s): Venkat Viswanathan

Bo Lei **
Data-Driven Image Segmentation of Complex Microstructures with Deep Learning
Advisor(s): Elizabeth A. Holm

Tong Mo *
Fabrication and Detection Channel Design for Bit Patterned Media
Advisor(s): David E. Laughlin, Jian-Gang (Jimmy) Zhu

Seunghee Oh
Study of AM Metals Under Laser Processing with In Situ X-Ray Diffraction
Advisor(s): Anthony D. Rollett, Robert Suter

Nisrit Pandey *
Investigation of Chiral Spin Textures in Pt/Co/Ni Based Magnetic Superlattices
Advisor(s): Marc De Graef, Vincent Sokalski

Joseph Andrew Pugar
Multiscale Modeling of Polyurethane Properties via Latent Variables with Hierarchical Machine Learning
Advisor(s): Newell Washburn

Jiwoo Song
Soft Strain Sensors for Implantable Applications
Advisor(s): Christopher Bettinger

Maria Anida Stang **
Improving Synthetic and Biomaterial Embedded 3D Printing for the Development of Biohybrid Systems
Advisor(s): Adam Feinberg

Qiyun Xu **
The Quantification of Mass Transport in Chalcogenides-Based Memory Devices
Advisor(s): Marek Skowronski

Maituo Yu
First Principle Simulation of Inorganic Materials and Interfaces by Density Functional Theory
Advisor(s): Noa Marom

Yiqi Yu **
Study of Crystallization in Chalcogenides Based Phase Change Memory Devices During SET Process
Advisor(s): Marek Skowronski

Mingyi Zhang *
Enhancing Charge Separation on Metal Oxides by Space Charge Engineering for Photocatalytic Overall Water Splitting
Advisor(s): Gregory S. Rohrer, Paul A. Salvador

Catherine Lin Zhou
Combinatorial Substrate Epitaxy and Computationally Guided Epitaxial Synthesis Investigations of the $AEMnO_3$ (AE = Ca, Sr and Ba) Polymorphs
Advisor(s): Gregory S. Rohrer, Paul A. Salvador

MECHANICAL ENGINEERING

BACHELOR OF SCIENCE

Mechanical Engineering

◆ Nicholas Robert Acuña **
Minor: Robotics

◆ Alexandria Figallo Kossow Adams
Minor: Environmental and Sustainability Studies

◆ Nicholas Tyler Alvarez
Additional Major: Robotics

◆ Colton Rady Amos

Nana A. Anokye
Additional Major: Biomedical Engineering

Amen Getinet Assefa

Noel Barnes

Aurielle Barnett **

◆ Elizabeth Anne Barre
Additional Major: Engineering and Public Policy

◆ Theodore Campbell Bates

◆ Nisha Bhargava
Additional Major: Biomedical Engineering

◆ Gabriel G. Blanco
Additional Major: Engineering and Public Policy

Gabriel Max Botero

◆ Miguel Antonio Reich Brandao
Minor: Innovation and Entrepreneurship

◆ Melissa Lynn Bryan **
Additional Major: Physics/ Applied Physics Track

◆ Jingchun Cao **
Minor: Philosophy

◆ Christopher Thomas Chang
Minor: Robotics

◆ Angelina Chen
Minor: Environmental and Sustainability Studies

◆ Rubin Chen

◆ Gavin E. Christopher

◆ Catherine Dong

Madison Nicole Dugan

Jason Easterling

Daniells Edwards

◆ Abirami Elangovan
Additional Major: Biomedical Engineering

◆ Daniel Fitzmorris
Minor: Business Administration
Minor: Innovation and Entrepreneurship

◆ Riley E. Forster

◆ Eli James Fox
Minor: Robotics

Remington Lucas Frank-Marquez **

◆ Li Fen Frothingham

◆ Rachel Ann Fuechtman
Additional Major: Biomedical Engineering

◆ Samantha Ruth Giordani

◆ Caleigh Mairin Goodwin-Schoen **

Zachary Allen Hamilton

◆ Elena Margaret Harllee

◆ Tyler Kosi Harp
Additional Major: Robotics

◆ Leo Rosenfeld Hasher

◆ Nicolena Graciela Hasson
Additional Major: Biomedical Engineering
Minor: Science, Technology and Society

◆ Xiao He
Additional Major: Robotics

◆ Hannah Kate Hong

◆ Ji Yeon Ashley Hong
Additional Major: Biomedical Engineering

◆ Charli Ann Hooper **
Additional Major: Biomedical Engineering
Minor: Neuroscience

◆ Megan Nicole Hu *
Minor: Environmental and Sustainability Studies

◆ Palak Jain
Additional Major: Engineering and Public Policy

Samyak Jain
Additional Major: Robotics

◆ Nicole Alexis Jani **
Minor: Computer Science

Douglas Matthew Johnson **
Minor: Robotics

Rebecca C. Karperis

◆ Janice Seungyeon Lee
Additional Major: Robotics

Yoona Lee
Additional Major: Biomedical Engineering

◆ Francine Elite Leung
Additional Major: Biomedical Engineering

Tianyi Li **
Additional Major: Robotics

Joshua Lim

◆ Maxwell Nicolaus Little

◆ Shiv Luthra

◆ Zoe M. Magnelia

◆ Yuemin Mao
Additional Major: Robotics

◆ Zachary John Martens

◆ John S. McNab

◆ Bisrat Tesfaye Mekonnen

Jesus Menjivar
Additional Major: Engineering and Public Policy

◆ Andres Montemayor
Minor: Business Administration
Minor: Hispanic Studies

◆ Nicholas Valentino Murolo
Additional Major: Robotics

◆ Mathea Regine Myhrvold
Additional Major: Biomedical Engineering

◆ Matthew Thomas Nagler
Minor: Business Administration

Aparna Hari Nair

◆ Jimmy Nguyen **

◆ Leo C. Nicolussi
Additional Major: Robotics

Sidney Nimako-Boateng
Minor: Robotics

Waleed Salah Obeid

◆ Bailey Ryan O'Malley

◆ Seiya Otani
Minor: Business Administration

◆ Iris Pan
Additional Major: Biomedical Engineering

◆ Robert Michael Petruska III
Minor: Computer Science

Joseph Gye Nyame Piñon

◆ Madeleine Louise Riordan

Myles Anthony Robinson
Minor: Robotics

◆ Sergio Rodriguez

◆ Jaime Andres Romero
Minor: Robotics

◆ Alain Philippe Saal-Dalma
Minor: Robotics

Elijah Lofgren Sech

Ria Sharma

Kent Ryo Shibata
Additional Major: Biomedical Engineering

◆ Anya Singhal
Minor: Physical Computing

Jacob Reed Smith **
Additional Major: Engineering and Public Policy

◆ Cole Sorkness

◆◇ Sarah Anne Stapleton
Minor: French and Francophone Studies
Minor: Robotics

◆ Jocelyn M. Su
Minor: Robotics

◆ Sathya Subramanian
Additional Major: Robotics

◆ Alexis J. Sudjianto
Minor: Human-Computer Interaction

◆ Michaela Isabel Tecson
Additional Major: Robotics

Abigail Haven Tharp *

Andrew E. Thrasher
Minor: Robotics

◆ Tiffany Tseng **

Ian Christopher Turner
Minor: Robotics

◆ Isabel Carolina Flores Vala
Minor: Physics

◆ Matthew Lee Wagner
Minor: Physical Computing

◆ Casey Miles Walker

Renee Jessica Wallace
Minor: Media Design

◆ Karen Whirley
Minor: Biomedical Engineering
Minor: Innovation and Entrepreneurship
Minor: Robotics

◆ Alex D. White
Additional Major: Robotics

◆ Jeanie Xu

◆ Jennifer Ying Yang

◆ Jong Won Yeo
Additional Major: Biomedical Engineering

◆ Katelyn Young
Minor: Business Administration

◆ Anna Yu
Additional Major: Robotics

Zachary Brian Zeranski

◆◇ Hannah Zhai

◆ Arthur Yangxi Zhang

MASTER OF SCIENCE

Computational Design and Manufacturing

Saharsh Agarwal **

Yijie Chen **

Ninaad Damis **

Tianyi Han **

Jiajun Ji **

Yipeng Lin **

Taichen Ling

Youchuan Liu **

Sai Abhishek Si Namburu **

Badal Arun Pardhi **

Karanveer Singh **

Chenlai Wang **

Jianmiao Wu **

Chenhao Yang **

Chengji Yu **

Haoran Zhang **

Jinchi Zhang **

Yihua Zhou **
Zheren Zhu **
Zhengyang Zou **

Mechanical Engineering

Jacob David Abrams Gomez **
Nicholas Robert Acuña
Hassan Azmat
Mohammad Babar **
Bolutito Babatunde **
Theodore Campbell Bates
Patrick Bem
Emma C. Benjaminson *
Karan Hemant Bhadri
Annie W. Chen
Darren Haoxiang Cheng **
Melinda Lara Cornwall **
Edwin Smith Critz IV
Yanyan Cui
Richard Joseph Dauksher **
Mansour Shaker Elsharawy **
Daniel Fitzmorris
Robert S. Flory *
Jose Alejandro Garcia Cortes
Kathleen Gladson **
Caleigh Mairin Goodwin-Schoen
Emilio Guevara
Ali Alp Gurer **
William Henry Hemler **
Kristopher David Hughes
Ethan D. Husted
Averitt Andrew Johns
Tanay Rishi Kamat
Meghan Kokoski
Tharun Kumar Reddy Kondareddy
Dalton Cole Lewis **
Ashlee Shiueh Ni Liao **
Maxwell Nicolaus Little
Madison Delaney Lui
Zoe M. Magnelia
Daniel West Marks
Elizabeth McGee
Clifton Anthony McKenzie
Mohammadkazem Meidani **
Zachary William Miller
Vinay R. Mitta
Brevin I. Mixon **
Matthew Thomas Nagler
Jimmy Nguyen
Camila Maria de Lourdes Pagan Santiago
Mgcini Keith Phuthi *
John Edward Roncoroni
Henry Scavone
Arushi Singh
Jonathan William M. Sultan
Johanna Torres
Tiffany Tseng
Thomas Austin Uhlig **
Eric Stephen Velge
Luis Viornery **
Wei Wu
Zeda Xu **
Yundi Yang
Katelyn Young
Joshua Mark Zapanta **
James Weiran Zhu **
Shang Zhu

Mechanical Engineering - Advanced Study

Marianna Anagnostou **
Braden Nicholas Barnett
Ishraq Bhuiyan **
Daniela Tina Castleberg
Navodit Chandra **
Yibo Chen **
Sharon Chu
Dexter Aaron Czuba **
Jeet Ketan Desai **
Juliet Ann Foote
Yuanhang Fu **
Chinmay Garg **
Abraham Isaac George *
Benjamin Giorgio **
Shravan Kumar Gulvadi **
Peize Hong **
Wei-Lun Hsu **
Chengkai Jiang
Neel Dinanath Joshi **
Vikash Kuniamuthur Krishnaraj **
Joseph Kurtz **
James Kyle
Aomeng Li
Yiqi Lyu
Jaiden I. Napier **
Ignacio Peon **
Viraj Ranade **
Aishwarya Ravi **
Yufeng Ren **
Troy Michael Vicsik **
Shaobo Wang **
James Torrisson Wong
Yicong Xiao **
Jiatong Zhang
Zechen Zhang **

Mechanical Engineering - Applied Advanced Study

Antoine Giovanni Amblard **
Akshay Antony **
Saurabh Rajendra Borse **
Johansson George Jose **
Sidhanth Gupta **
Ryan John Keller **
Taylor Kyle **
Zihao Li **
Guanliang Liu **
Jialei Ginny Liu **
Saurabh Sanjay Patil **
Ketaki Tamhankar **
Chuyi Tang **
Dajun Tao **
Ryan Madhu Tarr **
Yue Yin **

Mechanical Engineering - Research

Abdullatif Saleh A. Al Alsheikh
Owee Avinash Angare
Cameron Francis Assadian
Namya Bagree
Dongwei Bai **
Rishi Basdeo
Sameer Jayasimha Bharadwaj
Sarthak Bisht
Benjamin Bokser **
Felipe Alexander Borja
Yu Cao
Baihan Chen **
Xinyang Chen
Yolnan Chen
Yuanqing Chen
Tanmay Shrikrishna Chinchanikar
Qiuxian Deng
Yiping Dong **
Mohammed Talha Faiz
Aris Augusto Faria Chavez
Wangchuan Feng **
Jaya Aadityaa Ganapathy Subramanian
Garykalan Gengatharan
Alexander J. Glidden
Samiran Gode **
Zijian Guo
Mee (Jessy) Hyun Ha
Yihan He **
Meghdeep Jana
Aditya Abhay Joglekar
Vatsal Ketankumar Joshi
Pranav Katragadda
Lance Kavalsky
Jinho Kim
Rupanjali Kukal
Jaydutt Aniruddha Kulkarni **
Sohan Kulkarni
Samuel Henry Lapides
Zefang Li

Zijie Li
Fukang Liu
Shiqi Liu **
Hao Luo
Yichi Luo
Haoran Ma
Parth Malpathak
Vishnu Mani Hema
Bram J. Miller
Shreyas Misra
Ajinkya Mukund Nande
Rishabh Pahuja
Aneesh Rajesh Pawar
Neel Milind Pawar **
Xuwen Qiu
Aditya Ramakrishnan
Aditya Manish Rathi
Jiming Ren
Tianyu Ren **
Walter Robinson **
Fujun Ruan
Sagar Sachdev
Sourojit Saha
Mikayla Marie Schneider
Hemant Kumar Sharma
Sarthak Jeevaraj Shetty
Damanpreet Singh
Manpreet Singh
Ruchita Sinha
Shri Kiran Srinivasan
Yifan Sun
Nitika Suresh
Mathew Rohit Thomson
Soumith Udatha
Sebastian Vargas
Keqin Wang **
Linji Wang
Shuai Wang
Tuo Wang
Yanwen Wang
Achu Wilson
Wenyu Wu
Yumeng Xiu
Xinzhi Yan
Zichong Yang
Xiaoyang Zhan
Aoqian Zhang
Dijing Zhang **
Kerou Zhang **
Zixin Zhang

DOCTOR OF PHILOSOPHY

Mohamed Elfadil Abdelrahman **
Design, Fabrication and Characterization of Proton Exchange Membrane Liquid-Fed Energy Conversion Electrodes
Advisor(s): Shawn Litster

Brandon Abranovic **
Machine Learning-Enabled Process Monitoring and Process Development Across Additive Platforms
Advisor(s): Jack Beuth

Andres Arias Rosales
Solar Harvesting Swarms in Dynamic and 3D Urban Environments: Modeling and Simulation
Advisor(s): Philip R. LeDuc

Mansur Maturidi Arief
Certifiable Evaluation for Safe Intelligent Autonomy
Advisor(s): Ding Zhao

Diana Esmeralda Beltran **
Characterization, Mitigation and Modeling of Degradation in Platinum Group Metal-Free Hydrogen Fuel Cells
Advisor(s): Shawn Litster

Susana Maria Beltran
Investigating Mechanotransduction Behaviors of Natural and Engineered Molecular Sensors for Patient-Tailored Treatment Paradigms and Regenerative Rehabilitation
Advisor(s): Philip R. LeDuc, Rebecca Taylor

Jacob Brenneman **
3D Printed Stretchable Electronics: Fabrication Using Aerosol Jet, Fundamental Mechanics and Applications
Advisor(s): Rahul Panat

Ethan H. Brownell
Designing Better Design Teams: Studying Relative Contribution in Engineering Design with Proficient Heterogeneous Computational Agents
Advisor(s): Jonathan Cagan, Kenneth Kotovsky

Zhonglin Cao
Artificial Intelligence Enhanced Water Desalination
Advisor(s): Amir Barati Farimani

Adarsh R. Dave **
Automated Design and Discovery of Liquid Electrolytes for Lithium-Ion Batteries
Advisor(s): Venkat Viswanathan

Sathvik Divi **
Using Latches for Mediating Energy Output in Ultrafast Systems
Advisor(s): Sarah Bergbreiter

Lin Jing
Advanced Nanostructures for Thermal Management and Heat Regulation
Advisor(s): Sheng Shen

Ernest Stanley Kabuye
A Mixed Reality System Combining Augmented Reality, 3D Bio Printed Physical Environments and Inertial Measurement Unit Sensors for Task Planning
Advisor(s): Jon Cagan, Philip R. LeDuc

Alp Can Karacakol **
Design, Simulation and Programming of Magnetic Soft Robots
Advisor(s): Metin Sitti

Nathan J. Kong *
Increasing Reliability of Legged Robots in the Presence of Uncertainty
Advisor(s): Aaron M. Johnson

Angran Li *
Modeling Neuron Material Transport Using Isogeometric Analysis, Deep Learning and PDE-Constrained Optimization
Advisor(s): Jessica Zhang

Haiguang Liao **
Reinforcement and Supervised Learning for Combinatorial Problems in Electronics Design Automation
Advisor(s): Burak Kara

Joseph Conrad Norby *
Enabling Autonomous Legged Robot Agility
Advisor(s): Aaron M. Johnson

Yunsik Ohm *
Soft, Stretchable and Conductive Hydrogel Composites
Advisor(s): Carmel Majidi

Holden Low Parks *
Atomistic Modeling and Machine Learning Methods for Investigating Electrochemical Systems
Advisor(s): Alan McGaughey, Venkat Viswanathan

Zachary Patterson *
Soft Robotic Testbeds for Physics Simulator Validation, Closed Loop Control and Comparative Biomechanics
Advisor(s): Carmel Majidi

Catherine Ann Pavlov
Off-Nominal Rover Driving: Terrain Manipulation and Degraded Mobility Compensation
Advisor(s): Aaron M. Johnson

Martin Francis Phelan III **
Interventional Lorentz Force-Based Actuation Under Magnetic Resonance Imaging
Advisor(s): Carmel Majidi, Metin Sitti

Zhongqiang Ren *
Search-Based Multi-Agent Multi-Target Multi-Objective Path Planning
Advisor(s): Howie Choset

Utku M. Sonmez *
Microfluidic Systems for the Investigation of Mechanical Effects at the Cellular Level
Advisor(s): Philip R. LeDuc

Shashank Sripad *
Techno-Economics of Battery Electric Mobility
Advisor(s): Venkat Viswanathan

Wenhuan Sun **
Multi-Material Hydrogel Additive Manufacturing for Soft Robots
Advisor(s): Adam Feinberg, Victoria Webster-Wood

Syed Zia Uddin *
Laser Powder Bed Fusion and In Situ Process Monitoring for Tall Thin-Walled Structures
Advisor(s): Jack Beuth

Victor Venturi *
Solid Interfaces in Lithium Ion Batteries
Advisor(s): Venkat Viswanathan

Yuyang Wang
Self-Supervised Representation Learning for Molecular Property Predictions
Advisor(s): Amir Barati Farimani

College of Fine Arts

DEAN OF THE COLLEGE
Mary Ellen Poole

SCHOOL OF ARCHITECTURE
Omar Khan, Head of the School

SCHOOL OF ART
Charlie White, Head of the School

SCHOOL OF DESIGN
Eric Anderson, Interim Head of the School

SCHOOL OF DRAMA
Robert Ramirez, Head of the School

SCHOOL OF MUSIC
Jonathan Bailey Holland, Head of the School

STUDENT-DEFINED MAJORS
M. Stephanie Murray, Senior Associate Dean of Interdisciplinary Initiatives

ARCHITECTURE

BACHELOR OF ARTS

Architecture

◇ Xander Mark Fann
Minor: Design for Learning
Minor: Human-Computer

Giulia Emanuela Caterina Giampapa **
Minor: Film and Media Studies
Minor: French and Francophone Studies

◆ Xiaofei Huang

Lily Marie Hummel
Minor: Architecture History

Weiran Jia
Minor: Japanese Studies

June Lee
Minor: Media Design
Minor: Soft Technologies

Lake Taran Lewis
Minor: Photography

Shaokai Lin
Additional Major: Statistics and Machine Learning

◆ Lingheng Tony Tao
Additional Major: Computer Science
Minor: Game Design

◇ Jenny Jiayi Wang
Minor: Design
Minor: Photography

◆ Zixiong Wei
Additional Major: Human-Computer Interaction

Yunpeng Xu

BACHELOR OF ARCHITECTURE

Architectural and Building Sciences - Technology

◆ Aadya Bhartia **
Minor: Human-Computer Interaction

◇ Yael Canaan
Additional Major: Human-Computer Interaction
Minor: Intelligent Environments

Max Chen
Minor: Psychology

◇ Sean Shih-Kwei Chen
Minor: Human-Computer Interaction

◇ Seyoung Choo
Additional Major: Social and Political History
Minor: Design

◆ Nicholas Coppula

◆ Madeline Sydney Cotton
Minor: Architecture History
Minor: Building Science

◆ Jason Thomas Garwood
Additional Major: Human-Computer Interaction

◆ Xiaoyu (Sharon) Kang
Minor: Business Administration

◆ Anjali Kanodia
Additional Major: Human-Computer Interaction
Minor: Design for Learning

Rachel Jeong Kim
Minor: Human-Computer Interaction

◆ Susie Kim
Minor: Business Administration
Minor: Human-Computer Interaction

◇ Mari Kubota
Minor: Design

◆ Jackson Lacey

◇ Melinda N. Looney Ho
Minor: Design

Carson Miller Michaelis

◆ Katherine Alice Peppas
Minor: Drama

◆ Lydia Adele Randall
Minor: Film and Media Studies

◆ Ankitha Vasudev
Additional Major: Human-Computer Interaction

◆ Xu Xu
Additional Major: Human-Computer Interaction

◇ Yi Yang

◇ Franklin Zhu

MASTER OF ADVANCED ARCHITECTURAL DESIGN

Advanced Architectural Design

Shuning Lin
Hari Vardhan Sampath
Di Wu
Zehua Yang

MASTER OF ARCHITECTURE

Architectural and Building Sciences - Technology

Favour Folasade Adesina
Nicholas Alan Bilgri
Thomas Joseph Brennan
Emilio Bustamante **
Emma Catherine Cafiero
Colin Michael Cusimano
Neha Manjunath Hegde
Gavin Flynn Hurley
Joshua Michael Jordan
Sidra Khan
Meghna Koushik
Jordan Marie Luther
Tracy Meng
Pratyaksha Mishra
Tejaswini Dinesh Rane
Kavisha Jignesh Shah
Kushal Chetan Shah
Anna Jean Stewart
Samantha Su
Adam Kotaro Taira
Tabeer Tariq
Thomas Vite
Xinyi Wang
Peihao Zhang **
Yiting Zhang **
Jiayin Zhi

MASTER OF SCIENCE

Building Performance and Diagnostics

Yunhao Hu
Juye Kim
Ryunhee Kim
Tianqi Liu
Jonghwa Na
Jiyuan Sui
Mohammad Reza Takallouie

Computational Design

Yang Bai **
Tomas Cabezon Pedroso
Yuchen Cao
Tianqi Chu
Mitchell Cheun-Ho Foo
Yinuo Han
Ziyu Han
Michael David Hasey *
Soo Hwa Chloe Hong
Fanjie Jin
Boyang Lin
Haoyu Liu
Hongyu Mao
Tingsong Ou
Chenyi Shen *
Linxiaoyi Wan
Yuechen Wang
Jiaying Wei
Zishen Wen **
Bradley Dean Williams
Junjie Xu
Chengzhi Zhang
Jieyu Zhou
Yumeng Zhuang

Sustainable Design - Advanced Studies

Ninad Prashant Bandewar
Gregorius Agung Budhijanto
Sachin Dabas
Siqing Ge **
Nikita Khatwani
Sayali Sunil Lamne
Zhuorui Li
Monalisa Malani
Clarice Nicoll Meffert
Sanjana Nagaraj
Xin Zhou
Yi Zhou

MASTER OF URBAN DESIGN

Urban Design

Saloni Agarwal
Ariba Asad
Keyi Chai
Siqing Ge **
Ruoyu Li
Chang Liu
Linyue Luo
Schuyler McAuliffe **
Ritika Sanjay Narang
Richard Jonathan Pett
Lan Qin *
Xinye Wang **
Ruoxi Xie
Yi Zhou

DOCTOR OF PHILOSOPHY

Ardavan Bidgoli **
A Collaborative Framework for Machine Learning-Based Toolmaking for Creative Practices
Advisor(s): Daniel Cardoso Llach, Eunsu Kang, Golan Levin, Barnabas Poczos

Lipika Swarup
Combined Effects of Project Priority and Efficiency Factors on Project Outcomes in a Group of Multiple Projects.
Advisor(s): Erica Cochran Hameen, Matthew Mehalik, Peerasit Patanakul

Surekha Tetali
Surface Urban Heat Island: A Comparative Study Between India and the United States
Advisor(s): Nina Baird, Volker Hartkopf, Kelly Klima

Pedro Luis Alves Veloso **
An Academy of Spatial Agents: Training an Ecology of Computational Agents for Spatial Synthesis with Fine-Grained Interaction
Advisor(s): Ramesh Krishnamurti

ART

BACHELOR OF FINE ARTS

Art

Najjiyya T. Al-Mahi
Minor: Creative Writing

Preston Malcolm Blair
Minor: Innovation and Entrepreneurship

◆ Monica June Chang **
Minor: Animation and Special Effects

◆ Ross I. Elovitz **

◆ Brandon Hyun
Minor: Human-Computer Interaction

◆ Ameer Nafis Jones
Minor: Game Design

Ye Lim Kim

◆◇ Caroline Grace Kroger
Minor: Animation and Special Effects

Ming Lu
Minor: Animation and Special Effects
Minor: Human-Computer Interaction

Jamie Rebecca McArthur

◆◇ Pat L. Miller-Gamble

Doo Won Nam *

◆◇ Ester Sergeyevna Petukhova
Minor: Russian Studies

Audry Elena Stuart **

MASTER OF FINE ARTS

Art

Sarah C. Bowling
Jessica Fuquay
Laura C. Adelaide Hudspith
Rosabel Rosalind Kurth
Rebecca Jillian Shapass
Caroline Yoo

DESIGN

BACHELOR OF DESIGN

Design

◆◇ Caitlyn Baensch
Minor: Human-Computer Interaction
Minor: Intelligent Environments

◆◇ Bhakapol Bhakdibhumi
Minor: Human-Computer Interaction

Junwoo Cheong
Additional Major: Human-Computer Interaction

◆ Minyoung Cho
Additional Major: Human-Computer Interaction
Minor: Architecture

◆◇ Hayoon Choi
Minor: Human-Computer Interaction

◆ Elena Crites
Minor: Film and Media Studies

Chris Yoobin Han

◆◇ Alison Y. Hu
Minor: Game Design
Minor: Human-Computer Interaction

◆◇ Tate Andreas Johnson
Minor: Physical Computing

◆◇ Zimmy Kang
Minor: Innovation and Entrepreneurship

◆◇ Joseph Dongunn Kim
Minor: Human-Computer Interaction

◆ Michael Kim

◆◇ Sammie Kim
Minor: Human-Computer Interaction

◆ Se A. Kim
Minor: Art

◆ Na Young Lee
Additional Major: Human-Computer Interaction
Minor: Art

◆◇ Rachel Marie Legg
Minor: Environmental and Sustainability Studies

◆ Dorothy May Li
Additional Major: Human-Computer Interaction
Minor: Innovation and Entrepreneurship

◆ Grace Chang Li
Minor: Game Design

◆ Ian Michael Lippincott
Minor: Environmental and Sustainability Studies

◆ Chelsea Liu
Minor: Game Design

Holly Liu
Minor: Soft Technologies

◆ Shuyu Liu
Additional Major: Human-Computer Interaction

◆ Maggie Ruiyuan Ma
Minor: Human-Computer Interaction
Minor: Soft Technologies

Julia R. Nishizaki

◆ Francis Park

◆ Charmaine Qiu
Minor: Human-Computer Interaction

Quinten Lorenz Staples

Julia Steinweh-Adler
Minor: Human-Computer Interaction

◆ Stefanie Suk

◆ Gary S. Tang

◆ Proud Taranat
Additional Major: Human-Computer Interaction

◆ Elysha Tsai
Minor: Human-Computer Interaction

◆ Catherine Tq Wang

◆ Jiaqi Wang
Additional Major: Human-Computer Interaction
Minor: Intelligent Environments

◆ Sarah Qing Xi
Minor: Human-Computer Interaction

Ruoming Xin

◆ Wenqing Yin
Additional Major: Human-Computer Interaction

◆ Iris Yip
Additional Major: Human-Computer Interaction

◆ Nicole Vanessa Yu
Minor: Human-Computer Interaction
Minor: Physical Computing

◆ Eric Zhao
Minor: Human-Computer Interaction

◆ Chenyu Zhou
Minor: Statistics

◆ Daniel Si Zhu
Minor: Human-Computer Interaction
Minor: Physical Computing

MASTER OF ARTS

Design

Bhavyta Chauhan
Anna Powers Heyward
Pei-Yu Hung
Ruixuan Li
Alexis Mae Morrell
Milena Xiem Phan
Audrey Marie Reiley
Elizabeth Tanaka Sokolich
Yanqing Yang
Xiaotong Yu

MASTER OF DESIGN

Design for Interactions

Youngryun Cho
Sun Jae Choi
Yu-Yun Chung
Lokesh Fulfagar
Yuwei Guo
Anupriya Gupta
Ju Won Lee
Elaine Lu
Yeonjin Park
Shih-Hsueh Wang
Weijie Wang

MASTER OF PROFESSIONAL STUDIES

Design for Interactions

Xinlu Cai
Yiming Cai
Claire Che Chen
Bryan Ivar Dameron **
Xuan Liu
Woo Seok Sim
Jason Wang
Shafiqah Nisha Zulfikar

DOCTOR OF PHILOSOPHY

Silvana Beatriz Juri Peralta
Food Wisdom Through Design: A Transdisciplinary Approach for Sustainability Transitions
Advisor(s): Jonathan Chapman, Gideon Kossoff, Laura Pereira

Donna Maione
Recrafting Futures: Post-Material Transformations Toward Clothing Longevity
Advisor(s): Jonathan Chapman

Marysol Ortega Pallanez
Becoming Resonant in Design: An Inquiry into Public Space Exclusion in Hermosillo, Mexico Through Women-Plant Relations
Advisor(s): Jonathan Chapman, Tania Perez-Bustos

DRAMA

BACHELOR OF FINE ARTS

Drama

Sebastian Patrick Adkins

◆ Pablo Diego Anton

◆ Julianna Tacadena Austin

◆ Drew Landon Bos
Additional Major: Business Administration

◆ Chloe Kaitlyn Brown

◆ Emily Brunner
Minor: Sonic Arts

◆ Carolina Isabella Campos

◆ Kaylie Marie Carpenter
Minor: Social and Political History

◆ John Franklin Cherry
Minor: Film and Media Studies

Brayden Co

◇ Michael Basil Cook II

◆ Elena Catherine DelVecchio
Minor: Literature and Culture

◆ Olivia Elizabeth de Waart

◆ Bridget P. Doherty
Minor: Physical Computing
Minor: Sonic Arts

Annabelle Rose Duffy

◆ Claire Shea Duncan
Additional Major: French and Francophone Studies

◆ Liggera Edmonds-Allen
Minor: Literature and Culture

◆ Bahaar Esfahani

◆ Natalie Nour Eslami

◆ Bryanna Marie Felipe

◆ James Timothy Gallo

◇ William Reece Grover

◇ Julio Cesar Gutierrez

◆ Lucy Katherine Hall

◆ Eliza Joy Hallinan
Minor: Gender Studies
Minor: Literature and Culture

◆ Stewart Todd Harrison
Additional Major: Social and Political History

◆ Jack David Hopper

◆ Mitchell "Juno" Jacobs

◆ Amanda Joy Ju

◆ Sally Denise Kozminski
Minor: Literature and Culture

◇ Grace LaCarte
Minor: Literature and Culture

◇ Jade Lourdes Langan

◇ Andrew Wolf LeBuhn

◆ Julia Levine
Minor: Film and Media Studies
Minor: Literature and Culture

◆ Phoebe Lloyd

◆ Alec Morley Ludacka

- ◆◇ Keen H. Ma
  Minor: Film and Media Studies
- ◆◇ Emily Kathryn Marshburn
  Minor: Anthropology
- ◆◇ Samuel Aaron Marzella
- Wesley Robert Mathews
- ◇ Elizabeth Scott Miller
- Vanessa Mills
- ◆◇ Lucile Mariann Cayko Murphy
- Gerardo Navarro
- ◆◇ Julia "Juju" Maria Nieto **
  Minor: Literature and Culture
- ◆◇ Abiola Obatolu
- ◇ Emma Caroline Pollet
  Minor: Creative Writing
- ◆◇ Sophia Elizabeth Power
- ◆◇ Meena Romsaas
- ◆◇ Sidney Rubinowicz
- ◆◇ Katherine Mae Ryan
  Minor: Film and Media Studies
  Minor: Literature and Culture
- ◇ Owen Sahnow
- ◆◇ Bishop M. Sforza
- ◆◇ Cecilia Shin
  Minor: Architecture History
- ◆◇ Samora Spivey *
  Additional Major: Global Studies
  Minor: Hispanic Studies
- ◆◇ Sarah Margaret Stowell
- ◇ Kevin Keith Tappan Jr.
- ◆◇ Steven Lamar Taylor
- ◆◇ Dean Cole Thordarson
- ◆◇ Elinore Elizabeth Tolman
  Minor: Film and Media Studies
- ◆◇ Anna Eve Toutain
  Minor: Film and Media Studies
  Minor: Literature and Culture
- ◆◇ Jillian Jackson Warner
- ◆◇ Tessa Mary Weinland
- Sierra Young
  Minor: Photography

MASTER OF FINE ARTS

Costume Design

- Claudia Denise Brownlee
- Grace Kang
- Zhang Yu *

Costume Production

- Elyse Grimaldi
- Allison Rexrode **
- Derek St. Pierre

Directing

- Peter Gerhardt Andersen
- Rebecca Wahls

Dramatic Writing

- Kandace James
- Sharon Lovell

Lighting Design

- Alexandra Victoria Matveyevna Finley
- Xotchil Alyss Musser

Scene Design

- Evan Frank
- Jennifer Michelle Gould
- Samantha Kathryn Pollack
- Peter M. Rule

Sound Design

- Erik Cereghino
- Daniel Ocanto

Stage and Production Management

- Madison ReNee Gold

Technical Direction

- Victor Fernando Gutierrez

Video and Media Design

- Julian Kelley
- Qixin Zhang

MUSIC

BACHELOR OF FINE ARTS

Music – Composition

- ◆ Bennett Gregory Garfield
- ◆ Michael Robert Loguercio
  Minor: Film and Media Studies
- ◆ Aaron L. Morrison
  Minor: Conducting
- William L. Torres Jr.
  Minor: Music Education
  Minor: Sound Design
- ◆◇ Gabriel L. Whitney
  Minor: Creative Writing

Music Performance – Cello

- ◆◇ Madeline Louise Psarakis
  Minor: Music Education
- ◆ Haley Annika Rasmussen
  Minor: Psychology

Music Performance – Clarinet

- ◆ Matthew Rygelski

Music Performance – Euphonium

- ◆◇ Nicole Guccione
  Minor: Ethics
  Minor: Gender Studies
- ◆ Logan Kael Willis
  Minor: Conducting

Music Performance – Flute

- ◆ Joanna Kim

Music Performance – Oboe

- Axel Ferguson

Music Performance – Percussion

- ◆ Samantha Danbi Frei

Music Performance – Piano

- ◆◇ Matthew Tao
- ◆ Roseanne Yu

Music Performance – Saxophone

- ◆ William L. Meckley
  Minor: Music Technology

Music Performance – Trombone

- ◆ Malique Anthony Bennett *

Music Performance – Trumpet

- ◆ David Allison Peebles
  Minor: Hispanic Studies
- ◆ Sophia Wood Pratto
- ◆ Carlos Augusto Richter

Music Performance – Tuba

- ◆ Cole Alan Akindele Fayemi

Music Performance – Violin

- Brian Curtin
- ◆ Brooke Nicole Gunter
- ◆ Elizabeth Myunghee Hur
- ◆ Matthew Dongwook Suh
- Jiddu Vega
  Minor: Conducting

Music Performance – Voice

- ◆◇ Grace Alai
  Minor: Drama
  Minor: Music Education
  Minor: Music Technology
- ◆◇ Daniella June Brancato
- ◆ Morgan Paris Dodds
- ◆◇ Brianna Marie Dulock
- ◇ Matthew J. Lintern
- ◆◇ Emma Alexandra Rogers
  Minor: Social and Political History

BACHELOR OF SCIENCE

Music and Technology

◆ Thomas Matthew Omicinski
Carlos Ortega

MASTER OF MUSIC

Collaborative Piano

Joseph Stevens

Conducting

Julieta Ugartemendia

Composition

Emma Catherine Berkowitz
Liam Peter Mulligan
Jacob Schoenle
Victor Valle

Music Education

Yangwenxiu Li
Bradley Sanders

Performance – Clarinet

Cameron Harper
Nicole Lamagna

Performance – Double Bass

Daniel Ryan

Performance – Flute

Claire Gunsbury
Vanessa Jazmin Lopez
Guadalupe Itzel Melgarejo Garcia
Aaron Rib
Yuxi Yang

Performance – French Horn

Maya Rose Norman

Performance – Oboe

Johannah Dickenson

Performance – Percussion

Laura Chloe Lamb
Jacob McGregor Lisak

Performance – Piano

Yijing Fu
Wenrui Qu
Fjoralba Zguro

Performance – Saxophone

Joseph Seman
Tess Vanek

Performance – Trombone

Tess Cayton

Performance – Tuba

Hunter Kane
Adam Mtimet

Performance – Viola

Alexander D. Hettinga

Performance – Violin

Alayna Nicotera
Jane Parris
Maggy Simon
Therese West

Performance – Voice

Sarah Austin
Megan Cumming
Sydney Fabregas **
Leah Madeline Huber
Bridget A. Johnston
Melissa Medina Valencia
Zachary Smith
Laurel Sophia Styner
Alexandria Zallo

MASTER OF SCIENCE

Music and Technology

Yifan He
Ruiyang Jin *
Dong Hyun Lee **
Ari Liloia
Yinghao Ma *
Nicholas Magal
Samarth Ganesh Thopaiah
Yi Wang
Yuxuan Wu
Hanzhi Yin
Ruibin Yuan

STUDENT-DEFINED MAJORS

BACHELOR OF ARTS

Immersive Technologies

◇ Matthew Lucien Komar

Interdisciplinary Art and Media Studies

◆ Cassandra Leigh Scheirer
Minor: Human-Computer Interaction

Xenofeminist Artistic Practice and Transdisciplinary Works

◆ Neve Monroe-Anderson

Dietrich College of Humanities and Social Sciences

DEAN OF THE COLLEGE
Richard Scheines

DEAN OF CARNEGIE MELLON UNIVERSITY, QATAR
Michael A. Trick

ECONOMICS
Burton Hollifield, Associate Dean,
Tepper School of Business Undergraduate Programs

ENGLISH
Andreea Deciu Ritivoi, Head of the Department

HISTORY
Nico Slate, Head of the Department

INSTITUTE FOR POLITICS AND STRATEGY
Audrey Kurth Cronin, Director of the Institute

MODERN LANGUAGES
Anne Lambright, Head of the Department

NEUROSCIENCE INSTITUTE
Barbara Shinn-Cunningham, Director of the Institute

PHILOSOPHY
Peter Spirtes, Marianna Brown Dietrich Professor and Head of Philosophy

PSYCHOLOGY
Michael Tarr, Head of the Department

SOCIAL AND DECISION SCIENCES
Gretchen Chapman, Head of the Department

STATISTICS & DATA SCIENCE
Rebecca Nugent, Head of the Department

STUDENT-DEFINED MAJORS
Joseph Devine, Associate Dean for Undergraduate Studies

INTERDISCIPLINARY STUDIES

BACHELOR OF ARTS

General Studies

John H. Hewitt **
Minor: Media Design

ECONOMICS

BACHELOR OF ARTS

Economics

Jordan Isaacs

BACHELOR OF SCIENCE

Economics

◆ Jason Wayne Edmunds **
Minor: German Studies
Minor: Hispanic Studies

◆ Ibukunoluwa Olawale Kolade

◆ Noah George Lynch **

◆ Ayushi Ray **
Minor: Business Administration
Minor: Policy and Management

◆ Sean Michael Swayze
Minor: Computer Science
Minor: Politics and Public Policy

Economics and Mathematical Sciences

◆ Lingrui Fan

◆ Abigail Jacobson Kessler
Additional Major: Statistics

◆ Ruijia Qian
Minor: Business Administration

ENGLISH

BACHELOR OF ARTS

Creative Writing

Talia Rose Buksbazen
Additional Major: Professional Writing
Minor: Politics and Public Policy

Sonia Judith Epstein

◆◇ Ashni Manish Mathuria
Additional Major: Technical Writing
Minor: Philosophy

◆◇ Cameron Rudrick Monteith
Additional Major: Film and Visual Media
Minor: Photography

◆ Ana Maria Sabater
Additional Major: Film and Visual Media
Minor: Drama

Film and Visual Media

◆◇ Olav Bernard Carter
Minor: Drama

◆◇ Emily Laine Finger
Minor: Creative Writing
Minor: International Relations and Politics

Samara Mable Veronica McCallum *
Minor: Photography

Molly Wigglesworth **
Minor: Gender Studies

Literature and Culture

◆ Cynthia Guanyu Xu
Additional Major: Chinese Studies
Additional Major: Psychology
Minor: Drama

◆ Leilani Keai Zhang
Minor: French and Francophone Studies
Minor: Linguistics

Professional Writing

◆ Adrian Lapadat
Minor: Psychology

Alexandra Cleary Mathews

◆ Sydney Fall Salamy
Minor: Animation and Special Effects
Minor: Film and Media Studies

◆ Rebekah Lynn Welesko
Minor: Russian Studies

BACHELOR OF SCIENCE

Technical Writing and Communication

Elizabeth Jae Min Choi
Additional Major: Creative Writing

◆ Maria Kerong Guo
Minor: Computer Science

Taikyung Yuk **
Minor: Business Administration

MASTER OF ARTS

Global Communication & Applied Translation

Yifan Fang **
Bernadette Marie Higgs **

Literary & Cultural Studies

Henry Soren Malcolm Aceves
Jessica Ball
Charlotte Bloys
Rose Chang
Asmita Avinash Kumbhar
Juli Francis Lindenmayer
Brittany Maxey
Sydney Miller
Taylor Ann Murphy
Bhawana Sharma

Professional Writing

Alexander James Borkowski **
Iris Suzanne Chang
Tracy Le **
Madeline Liu **
Hanann Isam Marawi **
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Apolline Tardy

DOCTOR OF PHILOSOPHY

Richard G. Branscomb
Taking Aim: Rhetorical Conspiracism, Far-Right Extremism, and the Narrative Politics of Guns
Advisor(s): Andreea Deciu Ritivoi

Sarah Rose Hancock
The Social Life of Flowers: Women and Ornament in Eighteenth-Century Britain
Advisor(s): Kristina Straub

Laura E. McCann
Toxic Hope, Toxic Narratives: How Infertility Patients Counter Reproductive Myths Online
Advisor(s): Andreea Deciu Ritivoi

Hannah Ringler *
Close Statistical Reading: Rhetorical Interpretation of Computational Analyses of Texts at Scale
Advisor(s): David Kaufer

Nisha Lata Shanmugaraj
Negotiating the Model Minority: How Indian American Women Rearticulate Dominant Racial Discourse
Advisor(s): Stephanie Larson

Craig Edward Stamm **
Poetry and Natural History in the Network of Joseph Johnson
Advisor(s): Thora Brylowe, Jon Klancher

HISTORY

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Minor: Politics and Public Policy

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Additional Major: Environmental and Sustainability Studies
Minor: Gender Studies

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Social and Political History

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◆ Sohrab Ahmed Saljooki
Additional Major: Philosophy

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Liberal Arts Football: Athletics, Academics and American Higher Education, 1906–1948
Advisor(s): Scott Sandage

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Information Technology Strategy

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Minor: Hispanic Studies

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Additional Major: Statistics

DOCTOR OF PHILOSOPHY

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L2 Learning of Chinese Verb Separation via an Online Language Tutor
Advisor(s): Brian MacWhinney, Seth Wiener

Xiaomeng Li
The Effects of L1 Writing System and L2 Linguistic Knowledge on L2 Word Recognition
Advisor(s): Keiko Koda

Valentino Rahming
Las historias de Baha-blantes. Investigating language learning investment among intermediate students of Spanish at a tertiary institution in The Bahamas: A critically conscious approach.
Advisor(s): Uju Anya

Joseph Schaefer *
Director Decisions & Dialect: An Investigation into Policy, Ideology and Variety Integration Approaches for Arabic L2 Undergraduate Programs
Advisor(s): Khaled Al Masaeed

NEUROSCIENCE INSTITUTE

MASTER OF SCIENCE

Neural Computation

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Timothy Patrick Nolan *

DOCTOR OF PHILOSOPHY

Darby Michael Losey
The geometry of neural population activity during motor learning and memory
Advisor(s): Steven Chase, Byron Yu

Maxwell Bond Wang
Long term brain dynamics extend cognitive neuroscience to timescales relevant for health and physiology
Advisor(s): Avniel Ghuman, Robert Kass

PHILOSOPHY

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Metamath Zero: From Logic, to Proof Assistant, to Verified Computation
Advisor(s): Jeremy Avigad

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Learning and Using Causal Knowledge: A Further Step Towards a Higher-Level Intelligence
Advisor(s): Kun Zhang, Clark Glymour

Wai Yin Lam
Causal Razors and Causal Search Algorithms,
Advisor(s): Peter Spirtes

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Nonlocal Wasserstein Geometry: Metric and Asymptotic Properties
Advisor(s): Jeremy Avigad, Dejan Slepcev

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  Minor: The History of the Arts

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  Minor: Game Design
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  Minor: Machine Learning

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- Karen Nicole Sabol

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Minor: Gender Studies

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- Sheldon Yawson
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Yuxi Xie **

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Examining the Contours of Causal Learning in US Adults: The Role of Input Type and Expectations of Determinism
Advisor(s): David Danks, David Rakison

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Racial Differences in Social Support and Health Among Individuals with Type 2 Diabetes
Advisor(s): Vicki Helgeson

Patience Rose Stevens **
Morphological Processing During Visual Word Recognition: Mechanisms of Dynamics and Acquisition
Advisor(s): David Plaut

Roberto Vargas *
Measuring Abstract Concepts Using fMRI and the Implicit Semantic Accessibility Procedure: Implication for Measuring Representational Structures Across Social Groups
Advisor(s): Timothy Verstynen

SOCIAL & DECISION SCIENCES

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  Minor: Music Technology
  Minor: Politics and Public Policy
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- Kaitlyn Margaret Ho
  Additional Major: Decision Science

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- Lucy Blair Xiao-Niao Monroe
- Quinn Joseph Murray
- Maxwell Isaac Plottel
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  Additional Major: International Relations and Politics

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Minor: Decision Science

- Michael Leon Sun
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  Minor: Psychology

Krish Kailash Visht

Maxime Wilmet
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Decision Science

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- Meghan Loreto Behnke
  Additional Major: Technical Writing
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- Eamonn P. Burke
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  Minor: Design
  Minor: Human-Computer Interaction

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Christine Chung
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Mychajlo Demko **

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Seoyoon Moon
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Behavioral Decision Research

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Christopher Rodriguez *

Wenzhuo Xu *

Social and Decision Sciences

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Desire to Disclose: The Psychological Antecedents and Outcomes of Information Sharing
Advisor(s): George Loewenstein

Shu Huang *
Harnessing the Wisdom of Crowds
Advisor(s): Stephen Broomell, Russell Golman, Asa Palley

Stephanie E. Permut *
Designing Safeguards that Work: Three Essays on Carrots, Sticks and Guardrails
Advisor(s): David Creswell, Julie Downs, Silvia Saccardo

Sabina Sloman **
Towards Robust Bayesian Adaptive Design Methods for the Study of Human Behavior
Advisor(s): Stephen Broomell, Daniel Oppenheimer

STATISTICS & DATA SCIENCE

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Economics and Statistics

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Bhuvana Priyadarshini Bharadwaj
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◆◇ Sean Joseph Birch

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Minor: Decision Science

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◆ Yilin Wang **

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◆ Angela Zhu

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Isabella Grace Boleng
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Additional Major: Decision Science
Minor: Human-Computer Interaction

Xiaofeng Gan

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◆ Yue Hu

Jamie Kim
Minor: Business Analytics and Optimization

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◆ Logan Kenzo Saito
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Minor: Politics and Public Policy

◆ Yueer Tang
Additional Major: Human-Computer Interaction
Minor: Business Analytics and Optimization

◆ Wei-Ju Wang
Additional Major: Decision Science
Minor: Business Analytics and Optimization

Ruiwen (Jerry) Zhang **

Statistics - Mathematical Sciences Track

Xander James Brick
Minor: Mathematical Sciences

◆ Daniel Aaron Kornbluth

◆ Xuan Wang **

Statistics - Statistics and Neuroscience Track

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Statistics and Machine Learning

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Minor: Human-Computer Interaction

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Additional Major: Computer Science

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Minor: Business Analytics and Optimization

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Sachi Sujit Desai
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Additional Major: Economics

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Brandon R. Fafata

◆ Feiyang (Zach) Fan
Minor: Architecture
Minor: Computer Science

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Minor: Computer Science

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◆ Wenxin Lan

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Minor: Media Design

◆ Zixuan Ye
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MASTER OF SCIENCE

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Riccardo Fogliato *

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Statistical Practice

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Yiting Wang
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Yifan Wu
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Handi Yang
Xinge Zhang

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Heejong Bong *
Discovery of Functional Predictivity Across Brain Regions from Local Field Potentials
Advisor(s): Robert Kass, Valerie Ventura

Matteo Bonvini
Topics in Nonparametric Causal Inference
Advisor(s): Edward Kennedy

Riccardo Fogliato *
Data and Humans in Algorithmic Risk Assessment
Advisor(s): Alexandra Chouldechova, Zachary Lipton

Wanshan Li
High-Dimensional Change Point Analysis for Categorical Data
Advisor(s): Alessandro Rinaldo

Yue Li *
Modern Perspectives for Low-Dimensional Models, with Applications to Single-Cell RNA Transcriptomes Analysis
Advisor(s): Kathryn Roeder

Natalia Lombardi de Oliveira *
The Coupled Bootstrap Framework for Risk and Error Estimation
Advisor(s): Jing Lei, Ryan Tibshirani

Irwin Hollar McNeely III *
Quantifying Spatio-Temporal Convective Structure in Tropical Cyclones
Advisor(s): Ann Lee

Pratik Narendra Patil **
Facets of Regularization in High-Dimensional Learning: Cross-Validation, Risk Monotonization and Model Complexity
Advisor(s): Ryan Tibshirani

Shamindra Shrotriya **
On Some Problems in Nonparametric and Location-Scale Estimation
Advisor(s): Matey Neykov

David Zhao
Calibrated Conditional Density Models and Predictive Inference via Local Diagnostics
Advisor(s): Ann Lee, Aaditya Ramdas

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Fangzhe Gong **
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Yachen Guo **
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Kening Li
Liang Li **
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Information Systems Management

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Anirudh Ambati **
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DOCTOR OF PHILOSOPHY

Saharsh Agarwal
Societal Impacts of Digital Platforms and Policy Responses Thereof
Advisor(s): Ananya Sen, Rahul Telang, Catherine Tucker

Wen Wang *
Three Essays on AI/ML Algorithms for Business Decision and Social Welfare
Advisor(s): Pedro Ferreira, Beibei Li, Michael D. Smith

Yi Zhang **
Three Essays on the Economics of New Channel Adoptions in the Entertainment Industry
Advisor(s): Vibhanshu Abhishek, Rahul Telang, Michael D. Smith

Yue Zhao
Outlier Detection: Automation, Systems, and Applications
Advisor(s): Leman Akoglu, Zhihao Jia, George Chen

INFORMATION TECHNOLOGY

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Information Technology - Business Intelligence and Data Analytics

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DOCTOR OF PHILOSOPHY

Amanda Lee Coston
Principled Machine Learning in High-stakes Decisions
Advisor(s): Alexandra Chouldechova, Edward Kennedy, Hoda Heidari, Sendhil Mullainathan

Mengjia Ren *
Three Essays on Energy and Environmental Policies in China
Advisor(s): Karen Clay, Akshaya Jha, Edson R. Severnini

Max Rubinstein
Medicaid, COVID-19 and Causality
Advisor(s): Amelia Haviland, Zachary Branson, David Choi, Edward Kennedy, Robin Mejia, Nynke Niezink, Elizabeth Stuart

Shubhranshu Shekhar
Data-driven Decisions — An Anomaly Detection Perspective
Advisor(s): Leman Akoglu, Christos Faloutsos, Daniel Nagin, David Choi, Jetson Leder-Luis

Huiyan Zhang
Three Essays on Economics of Innovation
Advisor(s): Lee Branstetter, Raffaele Conti, Beibei Li, Fernando Machado

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BIOLOGICAL SCIENCES

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Additional Major: Computer Science
Minor: Animation and Special Effects

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Minor: Biomedical Engineering
Minor: Hispanic Studies

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Minor: Neuroscience

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Minor: Sociology

◆ Sharon Choi

◆◇ Ola A. Owodunni

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Minor: Health Care Policy and Management

Biological Sciences - Neuroscience Track

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Neuroscience

Rolando Jared Acosta

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Minor: Biomedical Engineering

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Additional Major: Ethics, History and Public Policy

◆ Shamika Sunil Dhuri
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◆ Emma Marie Harrison **

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◆ Rohan A. Patel
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◆◇ Yufei Shan
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Minor: Machine Learning

◆◇ Mona Meng Yuan
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MASTER OF SCIENCE

Biotechnology and Pharmaceutical Engineering

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Jaanaki Raghunath **
Yashwant Senthil Kathirvel **
Cameron Shea Stopperich **
Vincent Leonard Thari **
Yaxin Yang **

Computational Biology

Evan Corden
Jason Dai **
Kevin Elaba
Yuewei Fei
Ketaki Prakash Ghatole
Arnav Gupta
Xiaowen He **
Thomas Keaty
Sriram Sunder Kidambi
Yanjing Li
Yian Liao
Sofia Lima
Sitong Liu
Tian Liu
Xinyue Lu
Jialan Ma
Tomas Matteson **
Mirudhula Mukundan
Aditya Parekh
Rajdeep Shankar Pawar
Andrew Ressler II
Mahtabin Rodela Rozbu
Aditi Sarathy
Parker Jahmil Simpson
Parnal Palashmohan Sinha
Yanbai Tao
Xin Wang
Sarah Wenger **
Emma Wu
Yifan Wu
Yuxuan Wu
Tianyu Xia
Minhang Xu
Ruijin Yang
Lingge Nox Yu
Yejie Yun
Biyu Zhang

Computational Biology - Applied Study

Tianyu Lu
Weizheng Yuan

DOCTOR OF PHILOSOPHY

Christina Akirtava
Unraveling the Roles of mRNA Transcript Leader Sequences on Gene Expression
Advisor(s): C. Joel McManus

Fiona Fitzgerald
The DEAD-Box Protein Drs1 Facilitates Compaction of rRNA Domain III During Nucleolar Stages of Large Subunit Assembly
Advisor(s): John L. Woolford

Brendan Ronald Gallagher
Development of Ultra-Multiplexed Nanoscale Imaging Tools for Neural Synapse Typing
Advisor(s): Yongxin Zhao

Alexander Thomas Hodge **
Striatal Activity Reinforces Decisions Along Emergent Axes
Advisor(s): Eric Yttri

Catherine Lynn McCormick
Development of Novel In Vitro Culturing Systems to Promote Thymopoiesis
Advisor(s): Dr. Yong Fan

Paige Smith **
Red Blood Cells: Leveraging the Body for the Enhanced Delivery of Biotherapeutics
Advisor(s): Frederick Lanni, Alan Russell

CHEMISTRY

BACHELOR OF ARTS

Chemistry

Mina S. Nowroozi

BACHELOR OF SCIENCE

Chemistry

Adriana Agosta
Daniel Patrick Belardi
◆ Amanda Marie Chisholm
Additional Major: Environmental and Sustainability Studies
◆◆ Lechen Dong
Minor: Business Administration
◆◆ Zihan Dong
Minor: Business Administration
Hashnuvia Gamahelle Estime
Minor: Biological Sciences
◆◆ Remy Samara Goldberg
Additional Major: Policy and Management
◆◆ Brian Kun-Woo Hu
◆◆ Frank Hu *
Ellen Kahng
Minor: Human-Computer Interaction
Adrien Krupenkin
◆◆ Adam Lammi
Sally Jiyoung Lee
◆◆ Li Li
Additional Major: Statistics
Minor: Photography
◆ Kangyi Liu
Minor: Japanese Studies
◆ Sawyer Palsen
◆◆ Abigail Soojin Park
Minor: Computer Science
◆◆ Shree A. Patel
Minor: Creative Writing
Minor: Engineering Studies
◆◆ Jiwook Shin
◆◆ James Mason Shockley
Zachary Adam Smolar
◆◆ Guy Anthony Symonds *
Minor: Social and Political History
Casey Tsai
◆◆ Jasmine Kimberly Wiese
◆◆ Bryce Raymond Yeazell

Chemistry - Biological Chemistry Track

Karthik Alejandro Krishnamurthy
◆◆ Ysabel Cesea Li
Minor: Statistics
◆◆ Martha Rose Spletzer
Minor: Neuroscience
◆ Frank Z. Xu
◆◆ Jingzhi Christina Zhou
Minor: Philosophy

MASTER OF SCIENCE

Chemistry

Zihan Dong
Hannah Chloe Frame **
Calvin Gang **
Hanqing He **
Brian Kun-Woo Hu
Frank Hu *
Hossein Jafari *
Guy Anthony Symonds *

DOCTOR OF PHILOSOPHY

Michael Bautista *
Refining Synthetic Strategies in Suzuki Miyaura Catalyst Transfer Polymerization
Advisor(s): Kevin Noonan

Bailey Brook Bowers *
Understanding Everyday-Everywhere Chemicals and Their Transformation Products via High-Resolution Mass Spectrometry of Environmentally-Relevant Matrices
Advisor(s): Ryan Sullivan

Xiangsha Du *
On the Transition from Nonmetallic to Metallic State in Metal Nanoclusters
Advisor(s): Rongchao Jin

Manami Kawakami
Design, Synthesis, and Characterization of Ester-Functionalized Group 16 Conjugated Polymers and Macrocycles
Advisor(s): Kevin Noonan

Christopher Michael Kottke **
Novel Methods for the Design and Analysis of Molecular Dynamics Simulations of Protein Systems
Advisor(s): Maria Kurnikova

Eric Martin Lopato *
Exploring Multidimensional Chemical Spaces in Photocatalytic Hydrogen Evolving Reactions
Advisor(s): Stefan Bernhard

Saeed Moayedpour *
Structure Prediction of Epitaxial Organic and Inorganic Interfaces
Advisor(s): Noa Marom

Mateusz Piotr Olszewski **
Molecular Bottlebrushes for Biorelevant Applications
Advisor(s): Krzysztof Matyjaszewski

Alexander Herndon Pearse **
Peptide Nucleic Acids (PNA)-Based Structures for Nanotechnology and Biodetection Applications
Advisor(s): Catalina Achim, Bruce Armitage

Mingkang Sun **
Photochemical and Chemical Cocatalysts for Cu-Catalyzed ATRP: From Cocatalyst Properties to Polymerization Mechanisms
Advisor(s): Tomasz Kowalewski, Krzysztof Matyjaszewski

Megan Treichel **
Designing Phosphonium and Sulfoxonium-Functionalized Polynorbornenes for Alkaline Stable Anion-Exchange Materials
Advisor(s): Kevin Noonan

Wen Wen *
Structure Prediction of Organic/Inorganic Interfaces from First Principles
Advisor(s): Noa Marom

INTERDISCIPLINARY STUDIES

BACHELOR OF SCIENCE

General Studies

Luis R. Estrella Murphy **
Minor: Biological Sciences

Nozomi Yasuda **
Minor: Mathematical Sciences

MASTER OF SCIENCE

Data Analytics for Science

Jakob Demetri Cervenak
Yash Dugar
Ashritha Eswaran
Jaeyoung Kang
Gautami Kant
Prashanthi Kukkapalli
Phu Hai Le
Tianhan Ling
Ishita Malhotra
Janvi Umesh Mirchandani
Shivam Mishra
Thanh Ngoc Pham
Saksham Sarwari
Jie Sing Yoo
Alice Zilberberg

MATHEMATICAL SCIENCES

BACHELOR OF ARTS

Mathematical Sciences

Miguel Angel Benitez Andrade
Minor: Statistics

Carlos Jesus Zamora Santana

BACHELOR OF SCIENCE

Computational Finance

◆◇ Hantong (Cynthia) Dong
Minor: The History of the Arts

◆◇ Pranay Reddy Gundam

◆ Yuqing Li
Additional Major: Statistics and Machine Learning

◆ Chang Liu
Additional Major: Statistics and Machine Learning
Minor: Computer Science

◆◇ Benjamin Tze Rong Mok
Minor: Machine Learning

◆ Peicheng Qiu
Minor: Economics

◆◇ Jingchun Quan

◆◇ Gan Yang

◆◇ Zhian Zhang
Minor: Computer Science
Minor: Mathematical Sciences
Minor: Statistics

◆ Wenxin (Sheena) Zhu
Minor: Computer Science
Minor: Mathematical Sciences
Minor: Statistics

◆ Jennifer Zou

Mathematical Sciences

◆ Artas Maximus Alajbegu
Minor: Computer Science

◆◇ Isaac Rodney Browne
Additional Major: Computer Science

◆ Andrew Caosun
Additional Major: Computer Science

◆ David Chen
Additional Major: Computer Science

◇ Zhijie Chen **

◆◇ Amy Christine Germer

◆◇ Xinjie He

◆◇ Max Emanuel Hirsch

◆◇ Edward Hou **

Yuwen Huang **

◆◇ Yuxuan Huang
Minor: Neural Computation

◇ Benjamin Walker Ingimarson

◆ Vinod Raman Krishnamoorthy
Additional Major: Computer Science

◆◇ Thomas Jett Lam

Martine N. Leech
Minor: Engineering Studies

Ziyun Liu
Minor: Physics

Michael Mei Mao *

Brady Munroe **
Minor: Computer Science
Minor: Physics

◆◇ Vladyslav Oleksenko
Minor: Computer Science

◆◇ Khunpob Sereesuchart
Minor: Computer Science

◆◇ Laura Margarete Stemmler
Minor: Music

◆◇ Justin Wenxuan Sun
Minor: Computer Science

Natalie Tedeschi
Minor: Artificial Intelligence

Christopher Yu

Grant Yu

◆◇ Gregory John Zelevinsky
Additional Major: Computer Science

Steven Zhang
Minor: Computer Science
Minor: Machine Learning

Mathematical Sciences - Computational and Applied Mathematics

Pablo Aganza
Minor: Robotics

Shailaja Bhardwaj
Additional Major: Human-Computer Interaction

◆ Eli Ross Cohen
Additional Major: Statistics

◆ Rachel Gabriella Dolle

◆ Nevan Michael Giuliani
Additional Major: Computer Science

Alvin Hsu

◆ Anna Vladimirovna Moskaleva

◆ Emma Kristine Parrella
Minor: Artificial Intelligence
Minor: Computer Science

Lisa Jianing. Yu
Minor: Computer Science

◆ Chujie Zhang **
Minor: Computer Science

Mathematical Sciences - Discrete Mathematics and Logic

Cody Jason Bardin **

Gregory Beitler
Additional Major: Computer Science

◆ Stanley Chen
Additional Major: Computer Science

◆ William Owen Fowlkes

Ela Bianca Gulsen
Minor: Language Technologies

Xiaoling He

William D. Hong
Additional Major: Computer Science

◇ Zixin Hu
Minor: Computational Finance

Mythili Suguna Korimilli
Additional Major: Computer Science

Tarun Bala Krishna
Additional Major: Computer Science

Jenna Miller
Additional Major: Computer Science

Joseph J. Ritze
Additional Major: Computer Science

◆ Jonathan Shoung
Additional Major: Computer Science
Minor: Computational Finance

◆◇ Di Wu
Additional Major: Computer Science

◆ Andy Haiyi Zhang
Minor: Computer Science

◆◇ Kevin Andrew Zhou

Mathematical Sciences - Operations Research and Statistics

◆ Kaiwen Li
Minor: Computational Finance

Rohit B. Rajiv **

◆ Yeonji Seo
Additional Major: Business Administration

◆◇ Kan Sun
Additional Major: Statistics and Machine Learning
Minor: Computer Science

Mathematical Sciences - Statistics

◆ Jingyao Gong
Additional Major: Statistics and Machine Learning
Minor: Computer Science

Scott D. Rothbaum
Minor: Computational Finance

Julia Shen
Minor: Computer Science

◆ Matthew Song
Additional Major: Statistics and Machine Learning

Andrew Tsai
Minor: Business Administration

◆ Fanqi Yi *
Minor: Computer Science

◆◇ Siqi Zeng
Minor: Computer Science
Minor: Machine Learning

◆◇ Xun Zhang
Additional Major: Statistics and Machine Learning

MASTER OF SCIENCE

Algorithms, Combinatorics and Optimization

Tolson Hallauer Bell **

Mathematical Sciences

Nathaniel Bannister **

Jeremy Peter Beard **

Isaac Rodney Browne

Zhijie Chen **

Xinjie He

Max Emanuel Hirsch

Edward Hou **

Thomas Jett Lam

Vladyslav Oleksenko

Aditya Raut

Khunpob Sereesuchart

Justin Wenxuan Sun

Eric Ben Wang **

Gan Yang

Grant Yu

Gregory John Zelevinsky

Jiaming Zhang

Kevin Andrew Zhou

DOCTOR OF PHILOSOPHY

Zhijun Chen
Conditioning of Random Feature Matrices and Sparse Recovery
Advisor(s): Dejan Slepčev

Hanif Joey Cheung *
Notions of Amalgamation for Abstract Elementary Classes
Advisor(s): Rami Grossberg

Zichao Dong
Several problems in extremal combinatorics
Advisor(s): Boris Bukh

Mihir Hasabnis *
Topics in Extremal Structures and Random Graphs
Advisor(s): Alan Frieze

Junichi Koganemaru
Traveling wave solutions to the free boundary Navier-Stokes equations
Advisor(s): Ian Tice

Wang Chi Leung
Stability, Categoricity and Axiomatization of Abstract Elementary Classes
Advisor(s): Rami Grossberg

Zeyu Zhang
Propagation of chaos for order statistics of particle systems with mean-field interaction
Advisor(s): Martin Larsson

PHYSICS

BACHELOR OF ARTS

Physics

Peter G. Zepf **

BACHELOR OF SCIENCE

Physics

◆◇ Nazanin Azimi
Minor: Creative Writing

◆◇ Samuel Kelly Banks

Bhairavi Chandersekhar

Rhea Chopra
Minor: Biomedical Engineering

◆◇ Thomas Alexander Connolly
Minor: Computer Science

Ian Quinn Daugherty
Additional Major: Chinese Studies

◆ Christoph Alexander Gaffud
Minor: Computer Science

◆◇ Amy Christine Germer

Chloe Michelle Hess

◆◇ Alan Hsu
Additional Major: Robotics

◆ Ann Kang
Minor: Computer Science

◆◇ Rachel Ann Koenig
Additional Major: Hispanic Studies

Wentian Lai **

Mengdie Liu
Minor: Creative Writing

◆ Margot Emmeline Mahoney
Minor: Mathematical Sciences

◆ Liam Kenneth Mitchell
Minor: Mathematical Sciences

◆◇ Indra Periwal

Andres Francisco Segrera
Minor: Mathematical Sciences

◆ Guotong Sun

Colin Matthew Swett
Minor: Computer Science

◇ Alyssa Thomas

Samuel Vasquez

◆ Harrison William Wolf
Minor: Drama

◆ Xin Xu

◆◇ Sean Yuan **

Physics - Astrophysics Track

◆◇ Theo Dardia
Minor: Environmental and Sustainability Studies
Minor: Scientific Computing

◆◇ Katharine Lee

◆ Jason Weng

Physics - Computational Physics Track

◆ Joyce Lin

MASTER OF SCIENCE

Physics

Erick Arguello**
Zachary Baldwin**
Federico Berlfein**
Ekaterine Dadiani**
Jiawei Guo**
Gen Li *
Ying Tong Liu**
Carleen Abaya Markey **
Chanhyuk Park**
Kyungmin Park**
Aditya Sinha *
Sarah Skinner*
Xiaowen Zhang**

DOCTOR OF PHILOSOPHY

Yingzhang Chen
Two-Dimensional Shear Decomposition as a Probe of Halo Properties
Advisor(s): Scott Dodelson

Muhammed Fethullah Erguder *
Algorithmic Improvements for Extracting Lipid Bilayer Elastic Moduli from Height and Director Fluctuations
Advisor(s): Markus Deserno

Samuel Lincoln Foley
Mechanics and Thermodynamics of Differentially Stressed Lipid Membranes: Theory and Coarse-Grained Simulation
Advisor(s): Markus Deserno

Matthew Ho *
Deep Learning for Dynamical Mass Estimation of Galaxy Clusters
Advisor(s): Hy Trac

Christopher Kervick **
Two-Point Separation Functions for Modeling Wide Binary Systems in Nearby Dwarf Galaxies
Advisor(s): Matthew Walker

Peikai Li **
Cosmological Inference Beyond the Two-Point Correlation Functions
Advisor(s): Scott Dodelson

He Liu *
Advances in Near-Field High Energy Diffraction Microscopy (nf-HEDM) with an Application to Recrystallization in AM 316L Stainless Steel
Advisor(s): Robert Suter

Tanmay Kamalakar Mudholkar **
Search for Stealth Supersymmetry in Proton-Proton Collisions with the CMS Experiment at the Large Hadron Collider
Advisor(s): Manfred Paulini

Yueying Ni *
Cosmological Simulations from the Cosmic Web to Supermassive Black Holes
Advisor(s): Tiziana DiMatteo

Emma Rollinson Oxford
Measurements of CP Asymmetries in D0 → π+ π- π0 Decays in Dalitz Plot Regions at Belle II
Advisor(s): Roy Briere

Rebecca Rapp *
Characterizing Neutrino and Neutron Fluxes from the Spallation Neutron Source for the COHERENT Experiment
Advisor(s): Diana Parno

Andrew Smith
Electromagnetic Response of Electrons in Unconventional Layered Crystal Models
Advisor(s): Di Xiao

Abel Sun **
Measurement of H(e,e') and D(e,e') Cross-Sections for Bloom-Gilman Quark-Hadron Duality Study
Advisor(s): Brian Quinn

Nishchay Suri *
Engineering Topological States in Low-Dimensional Systems
Advisor(s): Di Xiao

Rithwik Tom *
Searching for Optimal Singlet Fission Polymorphs Using Molecular Crystal Structure Prediction Methods
Advisor(s): Noa Marom

Tianqing Zhang
Enabling the Weak Gravitational Lensing Science of the 2020s
Advisor(s): Rachel Mandelbaum

School of Computer Science

DEAN OF THE SCHOOL
Martial Hebert

DEAN OF CARNEGIE MELLON UNIVERSITY, QATAR
Michael A. Trick

COMPUTATIONAL BIOLOGY
Russell Schwartz, Head of the Department

COMPUTER SCIENCE
Srinivasan Seshan, Head of the Department

HUMAN-COMPUTER INTERACTION INSTITUTE
Brad A. Myers, Director of the Institute

SOFTWARE AND SOCIETAL SYSTEMS
James D. Herbsleb, Director of the Department

LANGUAGE TECHNOLOGIES INSTITUTE
Carolyn P. Rosé, Interim Director of the Institute

MACHINE LEARNING
Roni Rosenfeld, Head of the Department

ROBOTICS INSTITUTE
Matthew Johnson-Roberson, Director of the Institute

STUDENT-DEFINED MAJORS
Thomas Cortina, Associate Dean for Undergraduate Programs

COMPUTATIONAL BIOLOGY

BACHELOR OF SCIENCE

Computational Biology

- Nedah Zahra Ahmad
- Nour Tamer Elsayed Ali
  Minor: Cognitive Neuroscience
- Kunal Sandeep Joshi
  Minor: SCS Concentration in Machine Learning

Samiksha A. Kale
Minor: SCS Concentration in Machine Learning

Tiffany Satomi Nakai
Additional Major: Computer Science

- Daniel Edwin Schaffer **
  Minor: SCS Concentration in Machine Learning
- Meghana Tandon
  Additional Major: Computer Science

MASTER OF SCIENCE

Automated Science - Biological Experimentation

Hengjie Cui
Aditya R. Gadiyar
Yuejun Ge
Brittany S. Gomez
Daniel Isaac Jimenez
Deyi Li
Jiayi Li
Yiqing Wang

Automated Science - Biological Experimentation - Applied Study

Mang Yin (Matthew) Mo **

DOCTOR OF PHILOSOPHY

Liu Cao **
Computational Methods for Discovering Polyketides by Integrating Genomic and Mass Spectral Data
Advisor(s): Hosein Mohimani

Trevor S. Frisby
Sequential strategies for automated science and protein engineering
Advisor(s): Christopher J. Langmead

Easwaran Ramamurthy **
Deciphering the Regulatory Code Underlying Alzheimer's Disease Relevant Brain and Blood Cell Types
Advisor(s): Andreas Pfenning

Laura Hsia Tung **
Algorithms and Computational Methods for Transcriptome Analysis
Advisor(s): Carl Kingsford

Jennifer L. Williams
Modeling Individual Differences in the Brain in the Presence and Absence of Disease
Advisor(s): Leila Wehbe

Kyle Xiong
Application of Machine Learning Algorithms to Reveal 3D Genome Compartmentalization Patterns
Advisor(s): Jian Ma

Ruochi Zhang *
Charting the Landscape of 3D Genome Organization with Graph Representation Learning
Advisor(s): Jian Ma

COMPUTER SCIENCE

BACHELOR OF SCIENCE

Computer Science

- Faisal Tamer Abdelmonem
  Minor: SCS Concentration in Computer Systems
- Adrian Gordon Abedon **
  Minor: SCS Concentration in Computer Systems
- Mehul Agarwal
  Minor: SCS Concentration in Machine Learning

Imaaz Ahmad
Minor: Information Systems

- Victor Andres Alfonzo
  Minor: Photography
- Mohammed Basil Ali Al-Jawaheri
  Minor: SCS Concentration in Computer Systems

Yousef Abduljabbar Al-Saigh

Nadim Bou Alwan **
Minor: Psychology

- Prashanti Ann Anderson
  Minor: SCS Concentration in Algorithms & Complexity

Muhammad Umair Ansar
Minor: Business Administration

Aaina Arun
Minor: SCS Concentration in Computer Systems

Ward Ayan
Minor: Psychology

- Tejas Chhotulal Badgujar **
  Minor: SCS Concentration in Machine Learning
- Nikita Basu **
  Minor: SCS Concentration in Human-Computer Interaction

Kunal Bhatt
Minor: SCS Concentration in Human-Computer Interaction

- Elan Tirthankar Biswas
  Minor: SCS Concentration in Computer Systems
- Jeremy James Brennan **
  Minor: Physics

Thea Brick

- Mckenna Lauren Brown
  Minor: Neural Computation

◆ Haoyang Cai
Minor: SCS Concentration in Machine Learning

◆ Zhongyi Cao
Minor: Mathematical Sciences

Thomas Michael Carey
Minor: Game Design

◆ Nabi Efe Cekirge
Minor: Discrete Mathematics and Logic
Minor: Game Design

◆ Chun Yiu Jesse Chan
Minor: SCS Concentration in Machine Learning

Allison Anbo Chang
Minor: Mathematical Sciences

◆ Hanyu Chen
Additional Major: Mathematical Sciences (Discrete Mathematics and Logic)
Minor: SCS Concentration in Computer Graphics

◆ Honghao Chen

◆ Jinqi Chen
Minor: SCS Concentration in Machine Learning

◆ Lawrence Dorian Chen
Minor: Mathematical Sciences
Minor: SCS Concentration in Computer Graphics

◆ Tianyi Chen
Minor: Mathematical Sciences
Minor: SCS Concentration in Algorithms & Complexity
Minor: SCS Concentration in Computer Systems

Yifei Chen
Additional Major: Human-Computer Interaction

Sujun Cheng
Minor: Mathematical Sciences
Minor: SCS Concentration in Human-Computer Interaction

◆ Winston Cheung
Minor: SCS Concentration in Robotics

◆◇ Erica Sydney Chiang
Minor: SCS Concentration in Human-Computer Interaction

◆ Yoona Choi
Minor: Linguistics

◆ Ethan S. Chu **
Minor: SCS Concentration in Computer Systems

◆ Olivia Lucile Corrodi
Additional Major: Robotics
Minor: Business Administration
Minor: SCS Concentration in Human-Computer Interaction

◆ Samuel Richard Delatore
Minor: Discrete Mathematics and Logic

◆ Mihir Milind Dhamankar
Minor: SCS Concentration in Robotics

◆ Shannon Ding
Minor: Music Technology

◆ Helen Liu Dong **
Minor: Business Administration
Minor: SCS Concentration in Computer Systems

◆ Sixiang Dong
Minor: Physics

◆ Sajal Duppatla
Minor: SCS Concentration in Computer Systems

◆ Jack Rudd Duvall
Minor: Mathematical Sciences

◆ Xiang Fan
Minor: SCS Concentration in Machine Learning

Parker Felix
Minor: Economics

◇ Kai Franz
Minor: SCS Concentration in Computer Systems

◆ Lex Friedman
Minor: SCS Concentration in Computer Systems

◆ James Alexander Frucht
Minor: SCS Concentration in Software Engineering

◆ James Gallicchio
Minor: SCS Concentration in Principles of Programming Languages

◆ Eric Hao-Ran Gan
Additional Major: Human-Computer Interaction

◆ Isabel Galos Gan
Minor: SCS Concentration in Principles of Programming Languages

Meera Ganesan
Minor: SCS Concentration in Machine Learning

◆ George Xian Gao

◆ Michael Gee

◆ William Collawn Giraldo
Minor: SCS Concentration in Computer Graphics

◆ Siddharth Girdhar **
Minor: SCS Concentration in Machine Learning

◆ Alexandra Giroud **
Minor: SCS Concentration in Human-Computer Interaction

◆ Yuqi Gong
Minor: Mathematical Sciences
Minor: SCS Concentration in Computer Systems

◆ Xiqiao Guo
Minor: SCS Concentration in Machine Learning

◆ Devanshi Gupta
Minor: SCS Concentration in Machine Learning

Howard Loewe Halim
Minor: Mathematical Sciences

◆ Aman Haris
Minor: SCS Concentration in Computer Systems

Syeda Sana Hashmi **
Minor: Business Administration

Yousef Hassen
Minor: SCS Concentration in Machine Learning

Katherine He
Minor: Business Administration

◆ Dakota Sebastian Hernandez
Minor: Game Design

◆◇ Jhih-Yi Hsieh
Minor: SCS Concentration in Machine Learning
Minor: SCS Concentration in Robotics

◆ Justin Hsu **
Minor: SCS Concentration in Machine Learning

◆ Kenny Hu Kewei

◆◇ Emma Ling Hu
Additional Major: Mathematical Sciences (Discrete Mathematics and Logic)
Minor: SCS Concentration in Algorithms & Complexity

Zixin Hu

Len G. Huang
Minor: Economics

◆ Maggie Huang **
Minor: SCS Concentration in Language Technologies

◆ Patrick Borgene Huang
Minor: SCS Concentration in Computer Systems

◆ Victor Huang
Additional Major: Human-Computer Interaction

◆ Nali Huynh
Minor: SCS Concentration in Human-Computer Interaction

Alexander Robert Isparyan
Minor: SCS Concentration in Software Engineering

◆ Meghna Arun Iyengar **
Minor: Linguistics

◆ Megha Jain
Minor: Innovation and Entrepreneurship

◆ Ria Haresh Jaisinghani
Minor: Computational Finance

◆ Rushan Jiang
Minor: Physics

Jennifer Jin
Minor: Mathematical Sciences

Hridayesh Viral Joshi
Minor: SCS Concentration in Computer Graphics

Owen W. Kahn **
Minor: Mathematical Sciences

◆ Grace F. Kang
Minor: SCS Concentration in Computer Graphics

Tamta Kapanadze
Minor: SCS Concentration in Security & Privacy

◆ Eshita Kar **
Minor: Game Design
Minor: SCS Concentration in Security & Privacy

Mehal Vasuki Kashyap
Minor: SCS Concentration in Computer Systems

Jesse L. Keck
Minor: Physics

Kiran A. Khambhla
Minor: Music Technology

◆ Ziad Khattab
Minor: Cybersecurity and International Conflict

◆ Konwoo Kim
Minor: SCS Concentration in Computer Graphics
Minor: SCS Concentration in Machine Learning

◆ Kyungmin Kim **
Minor: SCS Concentration in Machine Learning

Seonghun Kim

◆ Tae Hoon Kim
Minor: Business Administration
Minor: Engineering Studies

Megha Koshy
Minor: Statistics

◆ Suhas Kotha
Minor: Mathematical Sciences

◆ Andrew Joseph Kubaney

Benjamin Kwabi-Addo
Minor: SCS Concentration in Software Engineering

Tarannum M. Lakdawala
Minor: SCS Concentration in Machine Learning

◆ Isabella Minh Laybourn
Minor: Game Design
Minor: SCS Concentration in Algorithms & Complexity

◆ Brian Taeyong Lee
Additional Major: Computational Biology

◆ Crystal Lee
Minor: SCS Concentration in Human-Computer Interaction

◆ Gabriel E. Lee **
Minor: SCS Concentration in Computer Systems

Joong Kun Lee *
Minor: Mathematical Sciences

◆ Trevor Michael Leong
Minor: Business Administration
Minor: SCS Concentration in Security & Privacy

Angie Li
Additional Major: Human-Computer Interaction

Cara Grace Li **
Minor: SCS Concentration in Machine Learning

◆ Joseph Xin Li
Minor: SCS Concentration in Computer Systems
Minor: SCS Concentration in Machine Learning

◆ May M. Li **

◆ Yihong Li
Minor: SCS Concentration in Software Engineering

◆ Huining Liang
Minor: SCS Concentration in Machine Learning

◆ Joyce Liao
Minor: SCS Concentration in Human-Computer Interaction

◆ Michelle Ling **
Minor: SCS Concentration in Computer Systems

◆ Andrew Liu
Minor: Engineering Studies

◆ Peiqi Liu
Minor: Engineering Studies

Yunsong Liu
Minor: SCS Concentration in Computer Systems

Alan Jay Llewellyn
Minor: Physics

◆ Elizabeth Louie **
Minor: SCS Concentration in Machine Learning

◆ Xinyi Luo **
Minor: Music Technology

◆ David A. Lyons
Minor: Business Administration
Minor: SCS Concentration in Computer Systems

◆ Boyang Lyu
Minor: Mathematical Sciences

◆ Elisa Zhishu Ma
Minor: Statistics

◆ Emmaline Gian-Yee Mai
Minor: Media Design
Minor: SCS Concentration in Robotics

◆ Yoseph Mak
Minor: Mathematical Sciences

◆ Ihita Mandal **
Additional Major: Artificial Intelligence

◆ Shreya B. Manjunath **
Minor: SCS Concentration in Human-Computer Interaction

◆ Joel Arthur Manning
Minor: SCS Concentration in Algorithms & Complexity

◆ Warwick Peter Alexander Marangos **
Minor: SCS Concentration in Robotics

◆ Jude Markabawi
Minor: Business Administration

Mashia Naushin Mazumder
Minor: SCS Concentration in Human-Computer Interaction

◆ Macardle Meng
Minor: Business Administration

◆ Alexandra Mikhalenko
Minor: Creative Writing

Ivan A. Minno
Minor: Creative Writing

Soumya Mishra
Minor: Innovation and Entrepreneurship

◆ Igli Mlloja
Minor: Mathematical Sciences

◆ Chang Heng Mo **
Minor: SCS Concentration in Machine Learning

Abdalla Hassan Mohamed
Minor: SCS Concentration in Computer Systems

◆ Abubakr Ahmed Bakri Mohamed
Minor: Mathematical Sciences
Minor: SCS Concentration in Principles of Programming Languages

Sonal Muthal
Minor: SCS Concentration in Software Engineering

◆ Arthi Nagarajan
Minor: Creative Writing

◆ Sarayu Namineni **
Minor: Creative Writing

◆ Kian Nassre
Minor: SCS Concentration in Computer Systems

◆ Brandon T. Nguyen **
Minor: SCS Concentration in Security & Privacy

◆ Zachary Theile Nowak
Minor: Linguistics

Onyekachi Chukwumaobi Onyeador
Minor: SCS Concentration in Security & Privacy

Namrata A. Padmanabhan
Minor: SCS Concentration in Human-Computer Interaction

◆ Yan Pan
Additional Major: Mathematical Sciences (Discrete Mathematics and Logic)

◆ Mahima Reddy Pannala
Minor: Computational Finance
Minor: SCS Concentration in Machine Learning

Kristian Charlemagne Parker
Minor: Physics

Shuyu Peng
Additional Major: Mathematical Sciences

◆ Sarah Nuruddin Pethani
Minor: Game Design

Cooper Patrick Pierce
Minor: SCS Concentration in Computer Systems

◆ Ruhan Shiva Prasad **
Minor: SCS Concentration in Human-Computer Interaction

◆ Angle Qian **
Minor: Business Administration

Anna Qiu **
Minor: SCS Concentration in Principles of Programming Languages

◆ Yuyang Qiu
Minor: SCS Concentration in Human-Computer Interaction

◆ Steven Sun Qu **
Minor: SCS Concentration in Computer Systems

◇ Samar Rahmouni **
Minor: SCS Concentration in Principles of Programming Languages

◆ Arian Salil Raje
Minor: Mathematical Sciences

◆ Joseph Cole Ramos **
Minor: SCS Concentration in Principles of Programming Languages

◆ Ryan Jacob Ravitz
Minor: SCS Concentration in Algorithms & Complexity

Syed Mohammad Raza Shah **
Minor: Business Administration

Hikma M. Redi
Minor: SCS Concentration in Software Engineering

◆ Leah Marie Restad
Minor: SCS Concentration in Computational Biology
Minor: SCS Concentration in Security & Privacy

◆ Ishika Saxena **
Minor: Science, Technology and Society

◆ Varshini Selvadurai **
Minor: SCS Concentration in Machine Learning

◆ William Yunsoo Seo
Minor: Business Administration
Minor: Engineering Studies

Sangita Anand Setlur
Minor: French and Francophone Studies

Seth Setse
Minor: Business Administration

◆◇ Mohammad Shaheer
Minor: SCS Concentration in Algorithms & Complexity

◆ Eesha Sharma **
Minor: SCS Concentration in Machine Learning

◆ Jiuqi Shen
Minor: Mathematical Sciences
Minor: SCS Concentration in Security & Privacy

◆ Abigail Katherine Shrack
Minor: Linguistics

◆ Surabhi Singh
Minor: Business Administration

◆ Nada Hamdy Soliman Mubarak
Minor: Psychology

◆ Aryan A. Soman
Additional Major: Mathematical Sciences

◆◇ Naomi Isobel Spargo
Minor: SCS Concentration in Principles of Programming Languages

◆ Bharath B. Sreenivas
Minor: SCS Concentration in Computer Systems
Minor: SCS Concentration in Machine Learning

◆ John Stellwagen **
Minor: SCS Concentration in Machine Learning

◆◇ Megan Strauss **
Minor: SCS Concentration in Principles of Programming Languages

◆ Annabel Su
Minor: SCS Concentration in Machine Learning

◆ Selena Sui
Minor: SCS Concentration in Human-Computer Interaction

◆ Lucy Sun
Minor: Business Administration
Minor: SCS Concentration in Human-Computer Interaction

Deepti Sunkara
Minor: SCS Concentration in Human-Computer Interaction

◆◇ Jeff Liu Tan
Minor: SCS Concentration in Computer Graphics
Minor: SCS Concentration in Computer Systems

Ira Teqja
Minor: Business Administration

Katherine M. Thompson
Minor: Social and Political History

◆ Anjali Neha Thontakudi
Minor: Drama
Minor: SCS Concentration in Machine Learning

◆ Nouha Tiyal
Minor: SCS Concentration in Computational Biology

Neil U. Tomala
Minor: Statistics

◆ Vincent Martin Tombari
Minor: SCS Concentration in Machine Learning

◆ Eric Tong *
Minor: Mathematical Sciences

Kavya Reddy Tummalapalli
Minor: SCS Concentration in Computer Graphics
Minor: SCS Concentration in Human-Computer Interaction

Lorianna N. Vanderveen
Minor: Machine Learning

Tomas Viejobueno
Minor: SCS Concentration in Software Engineering

Tejpal Singh Virdi
Minor: SCS Concentration in Computational Biology

Adam Wang
Minor: SCS Concentration in Human-Computer Interaction

◆ Daniel Hanzhi Wang
Minor: Neural Computation

◆ Jiarui Wang
Minor: SCS Concentration in Computer Systems

◆ Justin Wang **
Minor: SCS Concentration in Algorithms & Complexity

◆ Kelly Keping Wang
Minor: SCS Concentration in Human-Computer Interaction

◆ Keying Wang
Minor: Engineering Studies

◆ Sophia Yanran Wang
Minor: SCS Concentration in Machine Learning

◆ Xuan Wang **

◆ Yutian Wang
Minor: SCS Concentration in Machine Learning

Kafungo Wangure
Minor: Professional Writing

◆ Elizabeth Yibei Wei
Minor: SCS Concentration in Machine Learning

◆ Emma Weiner
Minor: Neuroscience
Minor: SCS Concentration in Human-Computer Interaction

◆ Davis James Wojnovich
Minor: Statistics

Gabriel Jeremy Wong
Minor: Physics

◆◇ Ying Yee Wong
Minor: SCS Concentration in Computer Systems

◆ Ming-Yang Wu
Minor: SCS Concentration in Machine Learning

◆ Steven Wu
Minor: Innovation and Entrepreneurship
Minor: SCS Concentration in Robotics

Xinyu Wu
Minor: Japanese Studies

◆ Yuning Xia **
Minor: SCS Concentration in Human-Computer Interaction

◆ Alex Xie
Minor: SCS Concentration in Machine Learning

◆ Annie Jingyao Xu

◆ Fangjiao Xu
Minor: Mathematical Sciences

Jerry Xu **
Minor: Mathematical Sciences

◆◇ Olivia Katherine Xu **
Minor: SCS Concentration in Human-Computer Interaction

◆ William Yan **
Minor: SCS Concentration in Computer Systems

◆ Jenniffer C. Yang
Minor: SCS Concentration in Machine Learning

◆ Jules P. Yang
Minor: SCS Concentration in Human-Computer Interaction

Jaeyoung (Jeff) Youn
Minor: Logic and Computation
Minor: SCS Concentration in Machine Learning

◆ Andrew Z. Yu
Minor: Business Administration

◆ Kelly Yu
Minor: Psychology

◆ Rachel Yuan
Minor: SCS Concentration in Computer Systems

◆ Michelle Jennifer Yue
Minor: SCS Concentration in Human-Computer Interaction

Dorsa Zeinali **
Minor: SCS Concentration in Machine Learning

Nurassyl Zekenov
Minor: Tech Entrepreneurship

◆ Daniel Li Zeng
Minor: Mathematical Sciences
Minor: SCS Concentration in Computer Graphics

◆ Ann Anran Zhang **
Minor: SCS Concentration in Security & Privacy

◆ Brad Wenbo Zhang **
Minor: SCS Concentration in Algorithms & Complexity
Minor: SCS Concentration in Computer Graphics

◆ Brian Eric Zhang
Minor: SCS Concentration in Robotics

◆ Emily X. Zhang
Minor: SCS Concentration in Computer Systems

Joyce Xin Zhang **
Minor: Discrete Mathematics and Logic

- Justin Zhang
  Minor: Mathematical Sciences
  Minor: SCS Concentration in Algorithms & Complexity
- Lingxi Zhang
  Minor: SCS Concentration in Computer Graphics
- Michelle Zhang
  Minor: Business Administration
  Minor: SCS Concentration in Human-Computer Interaction
- Mingxuan Zhang
  Minor: Statistics

Jason Zhao
Minor: Economics

- Eric Yuan-Xi Zheng
  Minor: SCS Concentration in Algorithms & Complexity
- Huidan Zheng
  Minor: Game Design
- Jitong Zhou
  Additional Major: Statistics
- Lora Bailan Zhou **
  Minor: Linguistics
- Erin Zhu **
  Minor: SCS Concentration in Security & Privacy
- Jacob Justin Zych
  Minor: SCS Concentration in Software Engineering

MASTER OF SCIENCE

Computer Science

Christophe Al Haddad **
Sacha Adrien Bartholme **
Ellis Langham Brown II
Gwyneth Stella Chen **
Kangning Chen **
Jia Qi Dong **
Henry Du **
Bhanu Prakash Reddy Guda **
Jun Hur **
Ying Jiang **
Hoeseong (Hayden) Kim **
Timothy Taeho Kim **
Tanmay Girish Kulkarni **
Abhishek Kumar **
Philipp Kurz **
Siheng Li **
Ziyi Liu **
Gregory Souder Loose **
Jun Tao Luo
Nathan Israel Luskey
Joshua Cherian Mathews **
Luke McNeil
Aryan Mehra **
Yitao Meng **
Drew Darragh Moses **
Vy Thanh Thao Nguyen **
Nilay Milind Pande **
Amey Kiran Patel **
George Daniel Ralph
Joseph Salmento
Yizhou Sheng **
Yiwen Song **
Andrew R. Stange
Zi-Yi Tai **
Yue Yin **
Fan Pu Zeng
Juncheng Zhan **
Chuyi Zhang **
Jason Zhang **
Langning Zhao **
Yuxuan Zheng **
Jinhao Zhu **

Computer Science - Applied Study

Huiran Yu **

Computer Science - Foundational Studies

Yingjie Ling

Computer Science - Research

Anup Agarwal *
David Michael Kahn **
Peter Manohar *
Rohan Sawhney **
Sannan Tariq **

Computer Science - Research Thesis

Shreya Bali *
Shaan Dave *
Umaymah Imran *
Akshath Raj Jain
Krati Jain *
Yuan Jiang *
Weihan Li *
Tian Luo *
Mayank Mali *
Neha Nishikant
Deepayan Patra **
Jiaxin Shi *
Alexander S. Tarng *
Chitteshwaran Thavamani *
Peerat Vichivanives
Peijing Xu
Tianhong Yu *

DOCTOR OF PHILOSOPHY

Ainesh Bakshi *
Algorithms for Learning Latent Models: Establishing Tractability to Approaching Optimality
Advisor(s): Pravesh K. Kothari, David P. Woodruff

Benjamin Samuel Berg *
A Principled Approach to Parallel Job Scheduling
Advisor(s): Mor Harchol-Balter

Emily Black *
(Un)Fairness Along the AI Pipeline: Problems and Solutions
Advisor(s): Matt Fredrikson

Andrew F. Chung **
Realizing Value in Shared Compute Infrastructures
Advisor(s): Gregory R. Ganger

Chen Dan *
Statistical Learning Under Adversarial Distribution Shift
Advisor(s): Pradeep Ravikumar

Filipe de Avila Belbute Peres **
Combining Deep Learning and Physics Models for Efficient and Robust Architectures
Advisor(s): J. Zico Kolter

Priya Lekha Donti *
Bridging Deep Learning and Electric Power Systems
Advisor(s): Ines Azevedo, J. Zico Kolter

Gabriele Farina
Game-Theoretic Decision Making in Imperfect-Information Games: Learning Dynamics, Equilibrium Computation, and Complexity
Advisor(s): Tuomas Sandholm

Pratik Pramod Fegade **
Auto-Batching Techniques for Dynamic Deep Learning Computations
Advisor(s): Tianqi Chen, Phillip B. Gibbons, Todd C. Mowry

Shilpa Anna George
Low-Bandwidth Remote Sensing of Rare Events
Advisor(s): Mahadev Satyanarayanan

Graham Gobieski *
Programmable, Energy-Minimal Computer Architectures
Advisor(s): Nathan Beckmann, Brandon Lucia

Paul Golz *
Social Choice for Social Good: Proposals for Democratic Innovation from Computer Science
Advisor(s): Ariel Procaccia

David Ellis Kelner Hershkowitz *
Compact Representations of Graphs and Their Metrics
Advisor(s): Bernhard Haeupler, R. Ravi

Roger Iyengar
Scaling Up Wearable Cognitive Assistance for Assembly Tasks
Advisor(s): Mahadev Satyanarayanan

Ellango Jothimurugesan **
Large-Scale Machine Learning over Streaming Data
Advisor(s): Phillip B. Gibbons

Thomas Sheek Kim
Design Principles for Replicated Storage Systems Built on Emerging Storage Technologies
Advisor(s): David G. Andersen

Soon Ho Kong
Efficient Delta-Decision Procedure
Advisor(s): Randal E. Bryant, Edmund M. Clarke

Jack Paul Philip Kosaian
Practical Coding-Theoretic Tools for Machine Learning Systems and by Machine Learning Systems
Advisor(s): Rashmi Vinayak

Michael Roman Kuchnik
Beyond Model Efficiency: Data Optimizations for Machine Learning Systems
Advisor(s): George Amvrosiadis and Virginia Smith

Roie Levin *
Submodular Optimization Under Uncertainty
Advisor(s): Anupam Gupta

Gaurav Mukesh Manek
Stable Models and Temporal Difference Learning
Advisor(s): J. Zico Kolter

Sai Sandeep Reddy Pallerla *
New Directions in Inapproximability: Promise Constraint Satisfaction Problems and Beyond
Advisor(s): Venkatesan Guruswami

Devdeep Ray *
Integrating Video Codec Design and Network Transport for Emerging Internet Video Streaming Applications
Advisor(s): Srinivasan Seshan

Pedro Miguel Reis Bento Paredes *
On the Expansion of Graphs
Advisor(s): Ryan O'Donnell

Leslie Alison Rice
Methods for Robust Training and Evaluation of Deep Neural Networks
Advisor(s): J. Zico Kolter

Michael Harrison Rudow
Efficient Loss Recovery for Videoconferencing Via Streaming Codes and Machine Learning
Advisor(s): Rashmi Vinayak

Ziv David Scully *
A New Toolbox for Scheduling Theory
Advisor(s): Mor Harchol-Balter, Guy E. Blelloch

Yifan Song *
Communication Complexity of Information-Theoretic Multiparty Computation
Advisor(s): Vipul Goyal

Yong Kiam Tan *
Deductive Verification for Ordinary Differential Equations: Safety, Liveness and Stability
Advisor(s): Andre Platzer

Alex Liheng Wang *
On Semidefinite Program Relaxations of Quadratically Constrained Quadratic Programs
Advisor(s): Fatma Kilinc-Karzan

Ziqi Wang **
Building a More Efficient Cache Hierarchy by Supporting Multiversioning and Leveraging Application-Level Information
Advisor(s): Todd Mowry, Dimitrios Skarlatos

Kevin Gordon Arnold Waugh *
Strategic Behavior Prediction
Advisor(s): J. Andrew Bagnell

Yuanhao Wei
Enhancing Concurrent Data Structures
Advisor(s): Guy Blelloch

Samuel H. Westrick *
Efficient and Scalable Parallel Functional Programming Through Disentanglement
Advisor(s): Umut Acar

Hanrui Zhang
Designing and Analyzing Machine Learning Algorithms in the Presence of Strategic Behavior
Advisor(s): Vincent Conitzer

HUMAN-COMPUTER INTERACTION

BACHELOR OF SCIENCE

Human-Computer Interaction

◆ Bill (Boyuan) Guo
Yizhe Liu
Minor: Photography
Namita Rao

MASTER OF EDUCATIONAL TECHNOLOGY AND APPLIED LEARNING SCIENCES

Educational Technology and Applied Learning Sciences

Prithika Acharya *
Yinan Cai *
Chaoran Chen *
Gabriel Winter Clark *
Tyree Cowell **
Shiyu Duan
Amanda E.M. Frey
Xinlu Gou **
Yudi Jia *
James Patrick King **
Marc Levesque *
Rhea Li **
Yinmiao Li *
Yu Liao *
Zijing Lu **
Tiago Mergulhño Santos Castro *
Aastha Patel **
Rachel Hallie Pehrsson *
Tadpol Rachatasumrit *
Liujing Ren **
Princy Vinodbhai Sasapara *
Abubakir Siedahmed **
Boon Hong Donovan So *
Jingyi Song *
Yinru Sun *
Yiqing Sun
Shang-Yuan Wang *
Xinzhu Wang **
Lingyu Yan
Xinyu Yang *
Ziwen Zeng *
Hanxiao Zhang **
Jiaqi Zhang **
Qianru Zhang **
Xiangqing Zhang
Yanling Zhang *
Xiaoyang Zhou *

MASTER OF HUMAN-COMPUTER INTERACTION

Human-Computer Interaction

Parvathy Anand
Aradhana Venkat
Michael Liu Auld
Utkarsh Chaturvedi
Gursimran Chawla
Charlene Li Chen
Jacob Hsinyu Chen
Lukas Chen
Ian Dewayne Clark
Wen Jin Dai
Isabelle Donsbach
Zoya Egiazaryan
Yvonne Fang
Jessica Lynn Fortunato
Aryan Grover
Manvi Gupta
Nara Han
Alexander Holder
Qianyi Huang
Bhavya Jha
Eunbea Rosalia Ji
Anna John
Wenxin Ju
Alexander Wen Kyu
So King Joanie Lam
Jiwon Lee
Alana Levene
Mingzhe Li
Zhengyi Li
Sara Yuan-Ting Lian
Nicole Louie
Amy Lucas
Kathryn Minor
Joy Mukherjee
Siriveena Rosa Nandam
Alicia Ng
Fei Nie
Archana Ramakrishnan
Subhashini Ramkumar
Callan Meredith Riek
Alana Rogers
Victoria Santiago
Tejas Vijay Sarvankar
Anahita Sehgal
Katie Sun
Yi Hong Anthony Teo

Stephanie Tseng **
Patricia Vaidos
Raksarat Vorasucha
Serena Shuwen Wang **
Yiyang Wang
Aparna Maya Warrier
Thomas Wei
Meng-Hsin (Sonia) Wu
Jialin Ye
Vivian Mercedes Young
Lawrence Xiaoyang Zheng

MASTER OF SCIENCE

Human-Computer Interaction

Angel Alexander Cabrera *
William Thomas Epperson
Mingzhe Li **
Yi-Hao Peng
Alexandria Katarina Vail *
Daniel Phillip Weitekamp **
Humphrey Yang **

DOCTOR OF PHILOSOPHY

Cori Noelle Faklaris *
Toward a Socio-Cognitive Stage Model of Cybersecurity Behavior Adoption
Advisor(s): Laura Dabish, Jason I. Hong

Megan K. Hofmann *
Optimizing Medical Making: Applications of Generative Design for Fabrication in Healthcare Settings
Advisor(s): Scott E. Hudson, Jennifer Mankoff

Haojian Jin **
Modular Privacy Flows: A Design Pattern for Data Minimization
Advisor(s): Jason I. Hong

Lynn Kirabo
Forging a Path Towards Equity in Smart Public Transit Systems
Advisor(s): Aaron Steinfeld

Yasmine Firenze Kotturi **
Community-Based Approaches to Building Peer Support Systems for Work
Advisor(s): Chinmay Kulkarni

Tomohiro Nagashima *
Promoting Students' Self-Regulated Choices in Learning with Visual Representations
Advisor(s): Vincent Aleven

Samantha Ida Reig
Characterizing Agent Identities as Mediators Among Individuals, Embodiments and Services
Advisor(s): Jodi Forlizzi, Aaron Steinfeld

Saiganesh Swaminathan *
Computational Infrastructure Materials for the Networked and Interactive Built Environment
Advisor(s): Scott E. Hudson

Kristin Marie Williams *
An Upcycled IoT: Creating Tomorrow's Internet of Things out of Today's Household Possessions
Advisor(s): Jessica Hammer, Scott E. Hudson

INTERDISCIPLINARY STUDIES

BACHELOR OF SCIENCE

Artificial Intelligence

- Jeremy A. Angel
  Minor: SCS Concentration in Security & Privacy
- Anna Cai **
  Additional Major: Computer Science
- Abigail Shuangxin Chen **
- Jeremy Chiu
- Gilbert S. Fan
  Additional Major: Computer Science
- Mansi Gandhi
  Additional Major: Computer Science
- Michael Gee
  Minor: SCS Concentration in Computational Biology
- Elchanan R. Haas **
- Robin Han **
- Gael Masse Hyppolite
- Callan M. Jacobus
- Rohan Mackin Jha
- Maxwell Jones
  Additional Major: Mathematical Sciences (Discrete Mathematics and Logic)
- Ria Jotsinghani **
- Minchae (Claire) Kim **
  Minor: Chinese Studies
- Claire Yinghung Ko
  Additional Major: Computer Science
- Edward Yao Li
  Minor: Philosophy
- Max Lingfei Li
  Minor: Mathematical Sciences
  Minor: SCS Concentration in Algorithms & Complexity
- Eran Ozsarfati
- Medha S. Palavalli
- Bill Zhaoyang Qin
  Minor: Mathematical Sciences
- Aneesha Sampath
  Minor: Drama
  Minor: SCS Concentration in Language Technologies
- Arya P. Shah
  Minor: Business Administration
- Malini Shivaram **
- Gustavo Raul Silvera
  Minor: SCS Concentration in Computer Graphics
- An Tang
  Additional Major: Human-Computer Interaction
- Roshan Antony Thekiniath
  Minor: Mathematical Sciences
- Abhishek Vijayakumar **
  Additional Major: Computer Science

Stephanie Wang

- Fiona Xie
  Minor: Business Administration

Angela C. Zhang

- Karen K. Zhang **

General Studies

Richard Faria
Minor: Computer Science

LANGUAGE TECHNOLOGIES INSTITUTE

MASTER OF COMPUTATIONAL DATA SCIENCE

Computational Data Science

Arav Kapish Agarwal
Manoj Ghuhan Arivazhagan **
Dhruv Arya **
Venny Larasati Ayudiani **
Jeffery Cao
Bowen Chen **
Wei-Chieh Chen **
Xinyi Chen **
Xinyue Chen
I-Tsun Cheng **
Kevin Lucas Chian **
Wenxing Deng
Yuting Deng
Nidhi Dhar **
Kunal Dhawan **
Nathaniel David Fairbank
Michael Francis Finch **
Tanay Gangey **
Jiongtian Guo
Nikhil Gupta **
Eeshwar Gurushankar Prasad **
Sammy Hajomar **
Ye Rin Han
Jiyu Hu
Ge Huang **
Shicheng Huang **
Aishwarya Narendra Jadhav **
Shuyu Jiang
Xinhao Jiang **
Yukun Jiang
Lichen Jin
Annie Johnson **
Shantanu Arun Kamath **
Sidharth Kathpal **
Bharani Ujjaini Kempaiah **

Simon Knapp
Urvashi Priyam Kumar **
Sayani Kundu **
He-Wei Lee **
Boxuan Li **
Linyi Li **
Zhiyi Li **
Zhouyang Li **
Jing Xi Liu **
Tz-Ruei Liu **
Hao Yang Lu **
Ting Luo **
Adhokshaja V. Madhwaraj **
Kushagra Mahajan **
Ruben John Mampilli **
Divija Nagaraju **
Riddhi Nisar **
Sai Vishwas Padigi **
Su Min Park
Preksha Uttamkumar Patel **
Joshua Aaron Vargas Perez **
Shubham Milind Phal **
Yujun Qin **
Ramya Ramanathan **
Peilin Rao **
Sumanth Subramanya Rao **
Aditi Pradyumn Sharma **
Shreya Sharma **
Abhishree Balakrishna Shetty **
Kushagra Singh **
Yufan Song **
Vivek Sourabh **
Hermes Suen **
Ben Sukboontip
Ke Sun **
Tianyi Sun **
Anveshrithaa Sundareswaran **
Jayant Sravan Tamarapalli **
Sarthak Tandon **
Prasoon Varshney
Balashowry Vineeth Reddy Vatti **
Malaika Vijay **
Shubham Virmani **
Mahalakshumi Visvanathan
Rebecca Jane Wilson
Wang-Chen Wu **
Yunxuan Xiao **
Xinyan Xie **
Zhouyao Xie **
Nikhil Yadala **
Eric B. Youn
Jiuzhi Yu
Xiang Yue
Chenda Zhang **
Huiyi Zhang
Jingyi Zhang
Xinyu Zhang
Yijia Zhang **
Ziyan Zhang **
Zheng Zhong **

MASTER OF SCIENCE

Artificial Intelligence and Innovation

Ilyas Bankole-Hameed
Priyank Bhandia
Adeep Biswas
Shivani Sudesh Butala
Suyash Chavan
Siyu Chen
I-Chun Chern
Mukunda Das
Sanjan Das
Sayali Deshpande
Athiya Deviyani
Ritika Dhiman
Harnoor Dhingra
Sanjana Dulam
Utsav Dutta
Ciara Jean Figliuolo
Ishita Goyal
Ruyue Hong
Akshaj Jain
Preetiha Jayashanker
Abuzar Ahmed Khan
Alex Jinlong Li
Junhui Li
Mehak Malik
Meghana Mangipudi
Chirag Mehta
Sayali Moghe
Shruti Nair
Gabriel Shen Han Ng
Shiying Pan
Aditya Paul
Aadarsh Pratik
Bhavuk Sharma
Ranadeep Singh
Udaikaran Singh
Njall Skarphedinsson
Vishhvak Srinivasan
Adithya Thachappully Praveen
Haris Widjaja
Jingcheng Wu
Xianda Xu
Weihan Zhu

Intelligent Information Systems

Ayush Agarwal **
Aditya Bhagwat **
Ying Chen **
Yun-Hsuan Chen **
Chenxuan Cui **
Prathyusha Danda **
Karthik Ganesan **
Lavanya Gupta **
Rishubh Gupta **
Haocheng Han **
Lyuyang Hu **
Daniel Huang *
Jiayuan Huang **
Sameer Jain **
Qi Jiang **
Vaishakh Keshava **
Young Min Kim **
Rohan Kumar **
Sujay Suresh Kumar **
Andrew Lyubovsky **
Ameya Sunil Mahabaleshwarkar **
Kushan Mitra **
Swarnashree Mysore Sathyendra **
Dhruv Naik **
Sanika Natu **
Ashley Sung-Ji Oh **
Samarth Praveen Navali **
Selvan Sunitha Ravi **
Shikhar Shukla **
Abhishek Srivastava **
Priyam Tejaswin **
Ketan Kumar Todi **
Chih-Hao Wang **
Qinxin Wang **
Yuanhang Wang **

Intelligent Information Systems - Advanced Study

Zhenyu Bi
Chonghan (Paul) Chen
Pratik Joshi
Aditya Srikanth Veerubhotla
Liangwei Zhang
Kenneth Zheng

Language Technologies

Sumit Agarwal
Syeda Nahida Akter
Nathan James Anderson *
Siddhant Arora *
Srijan Bansal
Santiago Benoit (M23)
Dan Berrebbi

Amanda Lynn Bertsch
David L. Bick **
Kalvin Chang
Li-Wei Chen *
Gustavo Goncalves
Steven Yuanshuo Feng *
Yanlin Feng
Sireesh K. Gururaja
Taiqi He
Jessica Yin Huynh *
Aishwarya Udaysinh Jadhav **
Nour Jedidi *
Cathy Lu Jiao
Siyao Li *
Justin Lovelace *
Jeremiah Lev Milbauer *
Chaitanya Prasad Narisetty *
Perez Ogayo
Alissa Ostapenko *
Jiefu Ou
Nathaniel Romney Robinson
Jimin Sun
Suraj Tripathi
Rosanna Vitiello
Yau-Shian Wang *
Zhiruo Wang
Yuwei Wu
Zhenxin Xiao (M22)
Yi-Ting Yeh *
Xinyu Zhang **
Joshua Zhanson *

DOCTOR OF PHILOSOPHY

Aditi Swanand Chaudhary *
Automatic Extraction and Application of Language Descriptions for Under-Resourced Languages
Advisor(s): Graham Neubig

Siddharth Dalmia **
Exploiting Compositionality in Sequence Models
Advisor(s): Alan W. Black

Anjalie Elena Sehgal Field *
Integrating Language Technologies and Social Theories
Advisor(s): Yulia Tsvetkov

Varun Prashant Gangal **
A Suite of Low-Data Generation Settings Necessitating Interventions on End-to-End NLG Models
Advisor(s): Eduard Hovy

Junxian He *
Towards Efficient Natural Language Generation
Advisor(s): Taylor Berg-Kirkpatrick, Graham Neubig

Divyansh Kaushik **
Robustifying NLP with Humans in the Loop
Advisor(s): Eduard Hovy, Zachary Lipton

Xiang Kong *
Towards Efficient Neural Machine Translation
Advisor(s): Eduard Hovy

Juncheng Li
Towards Robust Large-scale Audio/Visual Learning
Advisor(s): Florian Metze

Ahmad Shikib Mehri *
Towards Generalization in Dialog through Inductive Biases
Advisor(s): Maxine Eskenazi

Chirag Nagpal
Leveraging Heterogeneity in Time-to-Event Predictions
Advisor(s): Artur Dubrawski

Naoki Otani
Leveraging Eventuality-Centric Implicit Knowledge for Natural Language Understanding
Advisor(s): Eduard Hovy

Hai Thanh Pham
Towards Efficient and Scalable Representation Learning
Advisor(s): Barnabas Poczos and David Woodruff

Dheeraj Rajagopal *
Explanations for Natural Language: From Theory to Practice
Advisor(s): Eduard Hovy

Abhilasha Ravichander **
Interpreting Neural Model Performance for Robust Natural Language Understanding
Advisor(s): Eduard Hovy, Norman Sadeh

Shruti Rijhwani **
Improving Optical Character Recognition for Endangered Languages
Advisor(s): Graham Neubig

Mariia Ryskina **
Learning Computational Models of Non-Standard Language
Advisor(s): Taylor Berg-Kirkpatrick, Matthew R. Gormley, Eduard Hovy

Sreecharan Sankaranarayanan
Collaboratively Learning from Programming Projects: A "Theory-Informed" Redesign Combining Problem-Solving Practice with Example-Based Learning
Advisor(s): Carolyn Rosé

Evangelia Spiliopoulou **
Modeling Event Implications via Multi-Faceted Entity Representations
Advisor(s): Eduard Hovy

Xinyi Wang *
Data Efficient Multilingual Natural Language Processing
Advisor(s): Graham Neubig

Shikun Zhang
Understanding People's Diverse Privacy Attitudes: Notification, Control, and Regulatory Implications
Advisor(s): Norman Sadeh

MACHINE LEARNING

MASTER OF SCIENCE

Machine Learning

Michael Ramzi Agaby **
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Zhaozhou An **
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Junli Cao
Titas Chakraborty **
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Eric Siyuan Liang **
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John Long **
Pranav Mani **
Blake Martin **
Ada Martin
Chase Connors McDonald **
Nathan Moss
Poojan R. Palwai
Carl Hanwen Qi **
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Yunwei Ren **
Manley Howell Roberts **
Rohan Saxena
Ekanan Settsuwan **
Saumya Gaurang Shah **
Rulin Shao **
Yihang Shen

Arvind Srinivasan **
Mashrin Manoj Srivastava **
Qiao Su **
Edward Sun **
Yanhan (Savannah) Tang
Ran Tao **
Jinjin Tian **
Hefei Tu
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Owen Wang
Shuyan Wang
Yuyang Wang **
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Shan Xue **
Jiaqi Zeng **
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Pengji Zhang **
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Tianming Zhou **
Zijian Zhou **

Machine Learning - Applied Study

Zhihan Lu **
Mukuntha Narayanan Sundararaman **
Chenhao Niu **
Sukriti Verma **
William W. Wong **

Machine Learning - Research

Valerie Chen
Chirag Gupta
Keegan Harris **
Nari Johnson
Gabriel Herbert Sarch
Shubhranshu Shekhar
Xiangchen Song

DOCTOR OF PHILOSOPHY

Siddharth Ancha *
Active Robot Perception Using Programmable Light Curtains
Advisor(s): David Held, Srinivasa G. Narasimhan

Kin Diego Salvador Gutierrez Olivares
Applied Mathematics of the Future
Advisor(s): Artur Dubrawski

Joon Sik Kim
Methods and Applications of Explainable Machine Learning
Advisor(s): Ameet Talwalkar

Biswajit Paria *
Strategies for Black-Box and Multi-Objective Optimization
Advisor(s): Barnabas Poczos, Jeff Schneider

Gregory Dean Plumb **
Towards an Application-Based Pipeline for Explainability
Advisor(s): Ameet Talwalkar

Ivan Stelmakh *
Making Scientific Peer Review Scientific
Advisor(s): Nihar Shah, Aarti Singh

Haitian Sun
Neural Reasoning for Question Answering
Advisor(s): Rulan Salakhutdinov

Nicholay Topin *
Unifying State and Policy-Level Explanations for Reinforcement Learning
Advisor(s): Manuela Veloso

Chih-Kuan Yeh **
Objective Criteria for Explainable Machine Learning
Advisor(s): Pradeep Ravikumar

ROBOTICS INSTITUTE

MASTER OF SCIENCE

Computer Vision

Mayank Agarwal **
Rohan Agarwal **
Dakshit Agrawal
Adnan Ahmad **
Sri Nitchith Akula **
Punit Bhatt **
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Deepti Upmaka **
Naveen Venkat **
Wenyu Xia **
Jiajie Xu
Linghan Xu **
Tzu-Hsuan Yang
Sahiti Yerramilli **
Lin Zhang **

Robotic Systems Development

Harshit Agrawal
Simi Hitesh Asher
Sai Shruthi Balaji
Kaushik Balasundar
Surajkumar Dhananjay Bhosale
Matthew Robert Kilgour Booker
Steven Mani Brills
Yilin Cai
Nicholas Anthony Carcione
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Kevin Michael Gmelin Jr.
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Robotics

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Yunchu Zhang *
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Zongyue Zhao *

DOCTOR OF PHILOSOPHY

Reuben Micah Aronson *
Control Input and Natural Gaze for Goal Prediction in Shared Control
Advisor(s): Henny Admoni

Benedikt Boecking
Learning with Diverse Forms of Imperfect and Indirect Supervision
Advisor(s): Artur Dubrawski

Nadine Nai Chen Chang
Visual Dataset Pipeline from Curation to Long-tail Learning
Advisors: Martial Hebert, Michael Tarr

Ishani Chatterjee **
Heuristic Search-Based Planning by Minimizing Anticipated Search Efforts
Advisor(s): Maxim Likhachev, Manuela Veloso

Jaskaran Singh Grover
System Identification and Control of Multiagent Systems Through Interactions
Advisor(s): Changliu Liu, Katia Sycara

Brian Jackson **
Accelerating Numerical Methods for Optimal Control
Advisor(s): Zachary Manchester

Alankar Shashikant Kotwal **
Computational Interferometric Imaging
Advisor(s): Ioannis Gkioulekas

Jacky Liang **
Learning with Structured Priors for Robust Robot Manipulation
Advisor(s): Oliver Kroemer, Maxim Likhachev

Jiahe Liao *
Liquid Metal Actuators
Advisor(s): Carmel Majidi

Xingyu Lin *
Learning Structured World Model for Deformable Object Manipulation
Advisor(s): David Held

Shohin Mukherjee
Parallelized Search on Graphs with Expensive-to-Compute Edges
Advisor(s): Maxim Likhachev

Dinesh Reddy Narapureddy **
Self-Supervising Occlusions for Vision
Advisor(s): Srinivasa G. Narasimhan

Brian Edward Okorn **
Object Pose Estimation Without Direct Supervision
Advisor(s): Martial Hebert, David Held

Xinshuo Weng *
Towards Modular and Differentiable Autonomous Driving
Advisor(s): Kris Kitani

Shumian Xin **
3D Reconstruction Using Differential Imaging
Advisor(s): Ioannis Gkioulekas, Srinivasa G. Narasimhan

SOFTWARE & SOCIETAL SYSTEMS

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Murat Talu **

Information Technology - Privacy Engineering

Adhishree A. Abhyankar **
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Sriram Viswanathan
Yixuan Wang **
Olivia Witanowska *
David T. Zagardo **

Societal Computing

James D. Moffitt **

MASTER OF SCIENCE IN SOFTWARE ENGINEERING

Software Engineering

Maria da Loura Casimirio**
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Mercy Chebet Rialem
Miguel Angel Yanez Sauza

MASTER OF SOFTWARE ENGINEERING

Embedded Systems

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Yuyang Huang **
Vandit Jain **
Jiangyue Li **
Yuxin Wu **

Scalable Systems

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Zhihao Wang **
Alec Yu **

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Societal Computing

Janice T. Blane
Social-Cyber Maneuvers for Analyzing Online Influence Operations
Advisor(s): Kathleen M. Carley

Ramon Villa-Cox *
Leveraging Stances in Conversations for the Assessment of Contentious Events in Twitter
Advisor(s): Kathleen M. Carley

Geoffrey Brian Dobson *
Cyber-Forces, Interactions, Terrain: An Agent-Based Framework for Simulating Cyber Team Performance
Advisor(s): Kathleen M. Carley

Thomas John Magelinski
Contextualized Conversational Network Dynamics on Social Media
Advisor(s): Kathleen M. Carley

Huilian Sophie Qiu **
Understanding and Designing Mechanisms for Attracting and Retaining Open-Source Contributors
Advisor(s): Bogdan Vasilescu

Software Engineering

Paulo Casanova
Failure Detection and Diagnosis in Architecture-based Autonomic Systems
Advisor(s): David Garlan, Co-Chair & Mário Zenha-Rela, Universidade de Coimbra, Co-Chair

Vishal Dwivedi **
Halo: A Framework for End-User Architecting
Advisor(s): David Garlan

Tepper School of Business

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Isabelle Bajeux-Besnainou

DEAN OF CARNEGIE MELLON UNIVERSITY, QATAR
Michael A. Trick

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Linda Argote

SENIOR ASSOCIATE DEAN, EDUCATION
Willem-Jan van Hoeve

ASSOCIATE DEAN, MASTER'S PROGRAMS
Kathryn Barraclough

ASSOCIATE DEAN, UNDERGRADUATE PROGRAMS
Burton Hollifield

PH.D. PROGRAM
Alan Montgomery

BUSINESS ADMINISTRATION

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Economics

- Ersi Celiku
  Minor: Business Administration
- Alexandre Maximilian Ganten
  Minor: Cybersecurity and International Conflict

BACHELOR OF SCIENCE

Business Administration

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Moza Talal Yousef Al-Abduljabar **
Minor: Arabic Studies

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Latifa Khalid Alnaimi
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- Yiping An
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- Hongyou Chen
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- Benjamin William Coyne
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  Additional Major: Statistics and Machine Learning
- Nhi Yen Dang
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Josef Rafael Del Mundo
Minor: Film and Media Studies

William Wang Deng **
Minor: Statistics

- Zixuan Deng
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  Minor: Innovation and Entrepreneurship
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  Additional Major: Philosophy
  Minor: Ethics
- Mengqi Ding
  Additional Major: Statistics
  Minor: Computational Finance
- Alexandria Hope Donohue
  Minor: Policy and Management
- Emily Yimin Du
  Additional Major: Statistics and Machine Learning

Sandeepna Eranki
Minor: Decision Science

Emily Keyi Fan
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- Jack Robert Fierro
  Minor: Decision Science
- Siddharth Raj Ganesh
  Minor: Creative Writing

Alejandro Garcia
Minor: Innovation and Entrepreneurship

Mahsa Masoud Ghaderi

◆ Steven Russell Grube
Minor: Economics

◆ Siyuan Guo
Minor: Computational Economics (Student-Defined Minor)

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Minor: Economics

◆ Jinwoo (Steven) Han
Additional Major: Statistics

James Alan Hill
Minor: Machine Learning

Sandra Ho
Additional Major: Computer Science

◆ Ji Yeon Hong
Minor: Decision Science

◆ Kenneth Huang
Additional Major: Statistics and Machine Learning

◆ William Lejing Huang
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Additional Major: Robotics

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Seyed Meqdad Jafarian

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Woo-Jin Jang
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Soyeon Ju

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Jeffrey Key
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Robyn Lee
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◆ Clarissa Liang
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Joshua Jia-En Lin
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◆ Winne Lin
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◆ Maxim Ryaguzov **
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Minor: Mathematical Economics (Student-Defined Minor)

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Ravshanbek Salimov
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  Additional Major: Statistics
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  Minor: Drama
- Nitin Sivamurugan **
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- Vivian Yuan
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- Emma Reimi Yukevich
  Minor: Ethics
- Mary (Wanqing) Zeng **
  Additional Major: Statistics
- Olivia Su Zhang
  Minor: Game Design
  Minor: Media Design
- Sandy Ming Na Zhang **
  Minor: Global Systems and Management

Business Administration - General Management

- Ahmad Nasser Al Duwek
  Minor: Architecture

Computational Finance

- Morgan Z. Yang

Economics

- Jing Wang
  Minor: Business Analytics and Optimization
  Minor: Human-Computer Interaction

Economics and Mathematical Sciences

- Pranay Reddy Gundam
- Daniel Aaron Kornbluth
- Zachary Seth Leventhal
- Yilin Wang

General Studies

- Mehrbod Mehrnia

MASTER OF BUSINESS ADMINISTRATION

Management Science

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- Yashu Arora
- Ryan William Atherley
- Sameer Kumar Awasthi
- Michael Steven Bailey
- Zhenfeng Bao
- Ahmad Baqer
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Sonja J. Finn
Ross Hamilton Finnie
Gary Daniel Fleischer
David Christopher Fox
Scott Alexander Frankert
Patrick Michael Freeman
Michelle Strauss Fremuth
Jonathon Frigo
Vijay Dilipkumar Gadani
Aditya Ganesh
Xin Gao
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Carrie Ann Gardner
Paul Edouard Gauthier
Robert Scott Gayden
Nancy Geronian *
Tyler Philip Gilcrest
Tucker McHenry Hoblitzell Glotzbach
Pablo Gomez Tena
Ignacio Gonzalez Solano
Mitali Goswami
Robert Joseph Gower
Charu Goyal
Jonathan Stuart Graber *
Ian William Gray
Sean Russell Greene
◆ Dani Nichol Grodsky *
Mariama Gueye
Jahmiah Guillory **
Ziqi Guo **
Nandini Gupta
Vaibhav Gupta
Kyoichi Hamaguchi
Cong Han
Taketora Hatai
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Jeffrey Pak Shing Ho
Larissa Ho **
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Feraaz Khaleel Hosein
Tyler Kyle Howe
Cole William Howey
Ray-Chung Hsu
Brian Jin Huh
Michael Edwards Ibanez
Masashi Iida
Karthik Ilango
Sean Patrick Irvine
Suguru Isoda
Keitaro Iwasa
Rishav Jain
Tarun Jain *
Shilpa Sara Jais-Stewart
Mark Dawson Jensen
Joseph H. Jeon
Kiwook Jeong
Danru Jin **
Christophe Mark Ashleigh Johnson
William Henry Jones
Bishwesh Joshi
Shiv Kamlesh Joshi
Nirmal Kumar Juluru
Nitya Chidambaran Kamala
Chihun Kang
Robert B. Kang
Saumya Kansal
Anirudh Kapuria
William Bergin Karol
Benjamin Micah Kaufman
Matthew Brian Kaufmann
Parvinder Kumar Kaushik
Joshua Evan Kaye
Ailish Margaret Keating
Matthew David Keebaugh
Jeffrey John Kelly
Sarthak Khanna
Balal Ahmed Khokhar
Yongjun Kim
Jacob Michael King
Cooper Wayne Kinley
Alexander Andrew Kinne
Tyler Daniel Knittel
Ryan Christopher Knoll
Matthew Gregory Knudson
Akshatha Kommalapati
Nicole Donielle Korber
Luke Beaumont Kortepeter
Nicolas Harry Kozak
Anna Evangelia Krakora
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Aubrey Daniel Land
Benjamin Pitt Henry Lauer **
Justin Lauw
Patrick Hannon Leddy
Bommie Jun Lee
Dong Hee Lee
Seunghwan Lee
Jared Elan Lese
Andrew Thomas Levine
Jeremy Matthew Levine
Qile Li
Kathy Li Zhang
Aleck W. Liu
Allison Liu
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Kavya Madhusudhan
Gazal Makkar
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Rosa Maria Manrique Castell
Amber Lara Manzi
Alex Swenson Marshall
Andrew James Martin
Iuliia Martynko
Benjamin Clark McDaniel **
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Ameer Tariq McMillan
Gaurav Mehra
Luke Stephen Miller
Vanshika Mittal
Subhojit Moitra
Jit Mondal
Masaaki Mori
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Andrew James Muratori
Duncan Scott Murphy
Joshua Austin Murphy **
Rukayat Morenike Muse-Ariyoh
Christa Soutullo Musgrove
Cole Mysinger
Gaury Nagaraju
Kosuke Naiki
Hope Edgerly Nakazato
Navneet Nara
Joseph Michael Nardi IV
Vance Edward Norman

Stacy Ann O'Neill
Cody K. Oeung
Luis M. Olazabal
Stephanie Christine Onderko
Benjamin Isaac Oppenheim
Dimitri Papadimitriou
Jun Park
Soungdeok Park
Thomas Jiwon Park
Tanvi Parmar
Dev Chandrakant Patel
Jenisha Sanjay Patel
Nirali Patel
Brandon Mackenzie Pearl
Hanlin Peng
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Prangchai Piladit
Darren Portillo
Nicholas Aaron Possi-Moses
Chandra Sowjanya Potamsetty
Rehaan Pradhan
Nicholas Collins Pugliaresi
Rishav Raj Purbey
Darshan Raj
Divya Ramesh
Iris Ran
Raghu Srinivasa Rangan
Carson Kelly Ray
Alexander Reed
Eric Joseph Reese
Brett Rettura **
Manuel Alberto Reyes
Matthew William Richardson
Alejandro Alberto Rivera
Jordan Nicklaus Robison
Andres Rodriguez
Nicholas James Rogness
Andrew Baer Rosen
Benjamin Jerome Rosenberg
Taryn Peugnet Ross
Matthew Joseph Rung
Ayush Rungta
Sophie Lynne Sacks
Rushikesh Nandkumar Salvi
Nadine Amanda Sanchez
Michael David Scandrol
Donald Alexander Scheatzle
Matthew Charles Schmidt
Jake Edward Schoelles
Michael Christopher Schrott
Evan Michael Schweitzer
Charles Pasquale Sestito
Kaushal Vinodkumar Shah
Meghna Sharma
Vishal Kumar Sharma
Chao Shi
Takafumi Shimazaki
Kohei Shimizu
Joseph Stephen Sickler
Gursimran Singh
Ratchanon Sirilertsombat **
Sigrunn Mathea Sky
Aditi Somanathan
Christopher Keith Stenerson
Brad Matthew Strimel
Eric Chiayou Su
Yee Su
Hao Sun **
Christopher Karol Szymanski
Nutchapon Thanasathit
Eric James Tinnell
Thavinee Tobhibul
Keisuke Tokunaga
Diane Tracy
Amanda Victoria Wong Tran
Wei-Cheng Tuan
Vedant Tyagi **
Nicholas Vincent Urban
William Camden Urry
Gregory Vallano
Nicolas Dante Valvo
Visarut Vantasin **
Jose Felipe Vargas Casadiego
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Vilas Krishnan Vasudevan
Akhil Venkatesh
Santiago Alonso Villanueva Ortega
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Yogeshri Ashok Wanjari
Pui Seng Wee
Tyler William Weger
Colin Michael Welch
Marc Whittington
Maxence Modeste Ferdinand Wiemer
Kendall Dawn Sykes Williams
Jacob Christopher Williamson
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Jingjing Kranek
Xiaotong Xu
En-rong Yeh
Anthony Jerome Yeoman
Kyle Daniel Yeung
Kun (Khairi) Yi
Thomas Tenming Your
Po Ya (Emily) Yu
Mariam Ramez Zakhary
Alex Demetrio Zamora
Anderson Paul Zega
Yang Zhang
Yiwei Zhong
David Kent Zimmerman
Emily Alexandra Zvosec

MASTER OF SCIENCE

Accounting

Cheng Li
Yongjoo Won
Yuanchun Ye

Algorithms, Combinatorics and Optimization

Lin An
Aidin Niaparast
Weizhong Zhang

Business Analytics

Zechen An
Pooja Balusani
Brendan Thomas Carroll
Alicia Carter
Hong Chang
William F. Chastka
Junting Chen
Wenxin Chen
Yuhan Chen
Zeqin Chen
Matthew Charles Costantino
Ralph Michael Del Negro
Olivia Taylor Dion
Melissa Carpio Felizardo
Zihan Gao
Ji Eun Han
Ying He
Yuwei Hu
Hao Huang
Yuxia Huang
Madison Rose Huynh
Hema Sundar Kadali
Mindaugas Katilius
Ting-An Ke
Milica Kosic
Balashankar Lakkaraju
Zechen Li
Ge Liang
Zixin Lin
Yanzhi Liu
Yerong Liu
Yining Liu
How-Ling Lo
Yuqi Lou
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Gnanitha Manne
Sameer Mishra

Erin Virginia Murphy
Rohi Susmitha Nallamolu
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Yongzheng Pan
Zhiyu Pan
Bhanu Kishore Pulla
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Aishwarya Shah
Jay Jignesh Shah
Afnaan Shaik
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Aurelien Simon
Sanjit Sokhi
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Swetha Srinivasan
Ryannon Brooke Starkey
Yuanhong Sun
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Yi Tang
Saketh Tasupalli
Patrick Carmin Turiano
Aprajitha Venkat
Jianjian Wang
Jiarui Wang
Jinyan Wang
Qianzi Wang
Shenghan Wang
Yifei Wang
Yining Wang
Zhongbo Wang
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Matthew James Whitehouse
Evan Kin-Fei Wong
Fang Wu
Chuanyu Xu
Weixuan Xu
Lidong Yang
Linyan Yang
Muda Yang
Ruiqin Yang
Zelealem Belaineh Yilma
Hang Yuan
Huiyi Yuan
Jiadi Zhang
Qixin Zhang
Weiyong Zhang
Linna Zhao
Jingwen Zheng
Yue Zhong
Xiaotong Zhu
Jingchen Zuo

Business Technologies

Akilesh Badrinaaraayanan
Aditya Chindhade *

Computational Finance

Morgan Andrew **
◆ Fernando Geronimo Bellora **
Maitheli Biswas **
Revanth H. Boppana **
Akshat Budania **
Timothy Burke **
Qiaoning Chen **
Xiang Chen **
Xiangyin Chen **
Yue Chen **
Ruyang Chengan **
Yue Chu **
Yufu Chu **
Lin Cui **
◆ Atul Daluka **
Shubhangi Dutta **
◆ Chazz Edington **
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Yijiao Fan **
Jin Fang **
Thomas Farina **
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Quan Gan **
Andres Garrido Aranda **
Jared Greenberg **
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Shunhua Guo **
Sakshi Gupta **
Jili Hao **
Yantong He **
Sean Hilliard **
Kai Lun Ho **
Wai Lok Ho **
Ming-Hsiu Hu **
Zhongwen Hu **
Juecong (Wynn) Huang **
Nikhil Jain
Srishti Jain **
Koontze Jang **
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Ruizhuo Jin **
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Yuxuan Jin **
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Minghan Li **
Mohan Li **
Xueyi Li **
Kaiyue Liao **
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Shizi Liu **
◆ Xiaoran Liu **
Zihang Liu **
Makram Michael Loughman **
Xiaoyan Lu **
Hrishikesh Menon **
Vijay Nadimpalli **
Ayoon Oh **
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Danila Sitnikov **
Salintip Supasanya **
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Shiyu Tang **
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Abhijith Venkat **
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Wenhao Wang **
Xiaolan Wang **
Xuntao Wang **
Yibo Wang **
◆ Zhaoxing Wang **
◆ Ziwen Wang **
Zixuan Wang **
Bohang Wei **
Peiwen Xiang **
Luyin Xin **
Jinghong Xu **
Qianqian Xu **
Yuxuan Yang **
Zhuqing Yang **
Xuhua Ye **
Jiajie Yu **
Jingbo Zhang **
Jinyang Zhang **
Wenzhao Zhang **
Yiming Zhang **
Qianyi Zhao **
Yao Zheng **

Economics

Hoang-Anh Nguyen
Arnav Sood
Pei Xue

Finance

Yue Wu
Kerry Paul Zhang

Operations Management

Nilsu Uzunlar
Tian Wang

Organizational Behavior and Theory

Nathan Fulham
Chaoyi Zhang

Product Management

Syed Aamir Aarfi **
Yati Agarwal **
Aditi Awasthy **
Rami Semaan Bassil **
Samrat Bhasin **
Sai Charan Bodigutta **
Deblina De **
Elias Edmond El Kozah **
Akshay Garg **
Rohan Ghosh **
Aniket Gupta **
Yangdi He **
Jingwei Huang **
Kuheli Jati **
Divit Sanjay Karmiani **
Monica Reddy Kathi **
Shruti Khandelwal **
Rohit Khattar **
Himanshu Kohli **
Atul Kushwaha **
Gaurav Kumar Manchanda **
Viraj Maheshkumar Mavawala **
Anurag Mishra **
Nayan Mittal **
Apurva Murishetty **
Vamsi Krishnan Nasala Subramaniam **
Kshitij Atulkumar Pandya **
Jonathan Michael Perlman **
Chu Qi **
Neha Singh Rajpurohit **
Apoorva Reddy **
Aman Sachan **
Sindhu Santhanakrishnan **
Ashka Shah **
Hiloni Prerak Sheth **
Jyoti Shikha **
Xing Wang **
Yue Wang **
Leela Gowtham Yanamaddi **
Sahithi Sampath Yeleswarapu **

DOCTOR OF PHILOSOPHY

Musa Eren Celdir
Essays on Contemporary Matching and Allocation Problems
Advisor(s): Soo-Haeng Cho

Matthew Angelo Diabes
Theory and Evidence of the Effects of Psychosocial Well-Being in Collaboration
Advisor(s): Taya Cohen

Ozgun Elci **
Essays on Logic-Based Benders Decomposition, Portfolio Optimization and Fair Allocation of Resources
Advisor(s): Gerard Cornuejols, John Hooker

Ki-Won Haan
Building Better Ideas Together: Understanding the Influence of Individual and Contextual Characteristics on the Emergence of Transactivity
Advisor(s): Anita Williams Woolley

Serim Hwang
The Introduction of Human and AI-Powered Virtual Influencers on Social Media Marketing
Advisor(s): Kannan Srinivasan

Jinwoo Kim
Multi-Unit Consumption Structure and Its Influence on Hedonic Decline
Advisor(s): Jeff Galak

Majid Mahzoon
Essays on Network Economics
Advisor(s): Maryam Saeedi, Ali Shourideh

Benjamin James Ostrowski **
Essays on Collective Creative Problem-Solving
Advisor(s): Anita Williams Woolley

Jisoo Park
Essays on Organizational Learning Processes and Outcomes in Healthcare
Advisor(s): Linda Argote

Xuege Zhang *
Essays on Macroeconomic Policy
Advisor(s): Ali Shourideh

Rudy Benjamin Zhou
On Combinatorial and Stochastic Optimization
Advisor(s): Benjamin Moseley

University-Wide, Intercollege and Joint-Degree Programs

Carnegie Mellon University

ENTERTAINMENT TECHNOLOGY CENTER

Drew Davidson, Director

INTEGRATED INNOVATION INSTITUTE

Peter Boatwright, Director

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ARCHITECTURE-ENGINEERING-CONSTRUCTION MANAGEMENT PROGRAM

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College of Engineering *and* Tepper School of Business

SOFTWARE MANAGEMENT PROGRAM, SILICON VALLEY

Gladys Mercier, Director

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ENGINEERING STUDIES AND ARTS PROGRAM

M. Stephanie Murray, Senior Associate Dean of Interdisciplinary Initiatives

College of Fine Arts *and* Dietrich College of Humanities and Social Sciences

HUMANITIES AND ARTS PROGRAM

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College of Fine Arts *and* Heinz College of Information Systems and Public Policy

ARTS MANAGEMENT PROGRAM

Jessica Bowser Acrie, Director

ENTERTAINMENT INDUSTRY MANAGEMENT PROGRAM

Daniel Green, Director

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SCIENCE AND ARTS PROGRAM

M. Stephanie Murray, Senior Associate Dean of Interdisciplinary Initiatives

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COMPUTATIONAL FINANCE PROGRAM

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COMPUTATIONAL BIOLOGY PROGRAM

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Mellon College of Science *and* College of Engineering

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ENTERTAINMENT TECHNOLOGY PITTSBURGH

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Tuesday Marie Becker
Lochlan Shea Belford
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Muru Chen
Qisheng Chen
Wei-Cheng Chen
Chenguang Deng
Jia Du
Faris Elrayes
Jingyuan Fang
Hui Feng
James Anthony Finkel
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Tairan Gao
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Yukti Gupte

Xiao Han
Shicai He
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Nolan Robert Pearson
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Yuchen Xie
Yutian Xie
Zongze Xie
Jia Xing
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Xueying Yang
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Dian Yi
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Zhenjing Yu
Weilin Yuan
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Yilin (Tilly) Zuo

INTEGRATED INNOVATION INSTITUTE

MASTER OF INTEGRATED INNOVATION FOR PRODUCTS AND SERVICES

Integrated Innovation for Products and Services

Megan Cheryl Dado
Nila Gao
Rohit R. Harlalka
Weijun Huang
Kevin Killeen
Maria Beatriz Manrique Ardila
Shanthala Rao
Kaila Christina Richardson
Pannida Thawornsate
Dongwen Xu

MASTER OF INTEGRATED INNOVATION FOR PRODUCTS AND SERVICES - ADVANCED STUDY

Integrated Innovation for Products and Services

Shobhit Aggarwal **
Elisa Arango **
Yash Rajeev Banka **
Rishi Bhargava **
Tanvi Bihani **
Pranjal Chavarkar **
Sumairha Mumtaz Choudhary **
Yifan Cui **
James Dang **
Garrett David Duarte **
Jessica Ezemba **
Ashlon Lionel Frank **
Mingcheng Guo **
Tanya Sandeep Gupta **
Nini Hong **
Jieni Huang **
Raghvi Kabra **
Ambar Ratan Kakkar **
Adithiyajothiram Lakshmanaperumal **
Tianyang Lei **
Yixuan Li **
Zhiyang Li **
Zihui Lin **
Yu Tong Tiffany Ling **
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Manas Mahaddalkar **
Anne Milan **
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Trishala Pillai **
Archita Raj **
Fatima Ahmed Salehbhai **
Varsha Sankar **
Srishti Singh **
Kyle Snyder **
Astha Rajen Vagadia **
Junqi Wang **
Jialei Xi **
Kehan Xiao **
Shixian Xie **
Jeshwanth Pranav Yathirajam **
Wenshuang Yuan **
Weiyi Zhang **
Yi Zhao **

MASTER OF SCIENCE

Software Management

Pranathi Alla **
Saad Mahmoud Om Altabari *
Mohammed Azhar **
Arjun Banerjee
Rishabh Banga **
Kimberly H. Barnes
Michel Serban Cantacuzene **
Shikha Charadva
Meesha Chauhan **
Junhao Chen **
Praneeta Codadu
Oscar J. Denys **
Devang Gaur **
Shruti Gautam **
Jonathan Gelfman **
Bruce Graham
Yu-Chun Huang **
Raksha Sahadev Hukkeri **
Pramod Illuri **
Abhishek Ratnakumar Iyer **
Darshna Jain

Shivani Jakhmola **
Ayushi Jha **
Yaoting Jiang **
Zijin Jiang **
Samhita Kanthavar **
Kap Soon Kim **
Akshaya Kumar *
Neal Kunkle
Haoyang Li **
Bo Liang
Qingmin Liu **
Apoorva Malhotra
Qi Hao Mao **
Somya Mittal **
Kashish Pahwa **
Sukarma Parimoo **
Mingruo Qu **
Amanda Corinne Quint *
Faraz Rahman
Maneesh Kumar S. Ramniranjan Sharma
Muneeb Rasool *
Dominic Ross
Shivangee Sabharwal **
Areebuddin Sanadi **
Divya Sawhney
Ishita Shah **
Karan Shah
Anoop Kadukutty Shanmughan
Yuxuan Shao **
Niharika Sharma **
Dhruv Singh
Tan Lan Guan **
Shuyan Wang **
Haolin Yang **
Huayu Yang
Yue Yu **
Yiyuan Zhu **

Technology Ventures

Aisya Aziz
Hassan Azmat
Karan Hemant Bhadri
Darsh Hiten Bhatt
Liang-Jung Chen
Jessica Cheng
Yanyan Cui
Prajwal Sanjay Deshkar
Sonal Didwania
Rayyan Ghaznavi
Guillermo Ernesto Gutierrez
Sarvesh Santosh Karkhanis
Saksham Khurana **
Jennifer Christmas Kouragian
Yuhao Liu **
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Udhayakumar Senthil
Bingyu Tian **
Yundi Yang
Hongtao Zou

College of Engineering *and* College of Fine Arts

ARCHITECTURE-ENGINEERING-CONSTRUCTION MANAGEMENT PROGRAM

MASTER OF SCIENCE IN ARCHITECTURE–ENGINEERING–CONSTRUCTION MANAGEMENT

Tannaz Afshar Bakeshloo
Megan Valeria Campbell **
Szu Min Chiang **
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Naga Sai Poojita Kodali **
Bhavika Koya **
Poornima Krishnan **
Anlin Li **
Paul David Muscat O'Brien
Akhila Pentrala **
Vaibhavi Mayurkumar Shah **
Aishwarya Singh **
Riti Anil Talreja **
Ryan Vaz **
Johns Thomas Vellikara **
Weiqing Wang **

College of Fine Arts and Dietrich College of Humanities and Social Sciences

HUMANITIES AND ARTS PROGRAM

BACHELOR OF HUMANITIES AND ARTS

◆ Ilona Emma Altman
Decision Science and Art

◆ Michelle Anqi Cao
Film & Visual Media and Art
Minor: Animation and Special Effects

Megan Matlida Julien
Psychology and Music Performance

◆ Sabine Jung
Decision Science and Music Performance
Minor: Human-Computer Interaction

◇ Elena F. Keogh
Global Studies and Drama

◆ Sohye Park
Decision Science and Art
Minor: Media Design

◆ Audrey Jeanne Renouf
Humanities Analytics and Art
Additional Major: Human-Computer Interaction

◆ Annalise Rodgers
Environmental & Sustainability Studies and Music Performance

◆ Julie Rebecca Scharf
Creative Writing and Drama

◇ Abigail Kucinski Stewart
Anthropology and Music Performance

◇ Allyson M. Tayao
Global Studies and Art

◆ Ajunie Virk
Film & Visual Media and Art
Minor: Animation and Special Effects

College of Fine Arts *and* Heinz College of Information Systems and Public Policy

ARTS & ENTERTAINMENT MANAGEMENT PROGRAM

MASTER OF ARTS MANAGEMENT

Arts Management

Evan Quinn Aanerud
Blake Ann Aber
Duncan Joseph Bindbeutel
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Olivia Reva Browdy
Yu Chen
Gabrielle Marie Clark
Gabrielle Lucia Di Raddo
Isaac John Fisher
Moises Ariel Garcia
Morgan Rose Hogenmiller
Tianlan Jiang **
Alex Frances Kimmel
Natalie Magdalene Larsen
Sydney Leslie
Shengjia Liu
Veronica Janet Lopez
Maraika Hendley Lumholdt
Xiaocheng Ma **
Katie Elizabeth Remark
Qinyuan Shen
Theodora Listalin Thrastardottir
Lauren Michelle Walker
Victoria Yvonne Walters
Elana Tovah Weiner
Yifei Wu
Yuhan Yan

Xiaodi Zhang
Qianying Zhao **
Zipu Zhao
Hanmo Zhou
Xinzhao Zhou

MASTER OF ENTERTAINMENT INDUSTRY MANAGEMENT

Entertainment Industry Management

Kaylynd Michelle Brown
Georgia Kitt Calawerts
Caitlyn Dour
Alyssa Eblen
Matthew P. Fiacco
Walter Rogelio Garay Sandoval
Chloe Alexa Hampton
Samantha Mae Hazlett
Aarushi Jain
Ethan Jones
Thomas Andrew Kalnas
Anjana Kankanala
Samantha Nicole Ketter
Siya Khanse
Anran Liao
Gabrielle Bethany Lossia
Kailea Marie Martin
Rachael Kathleen McNamara
Shambhavi Mishra
Amanda Marie Molloy
Xiaofo Pan
Sammie Paul
Kody Blue Joseph Lee George Proctor
Carolina Quintana
Luke David Samuel Ressler
Daniela Restrepo
Sydney Scout Roberts
Morgan Schabhuttl
Delaney Ryall Sears
Lee-Ann Marlena Shaw
Victoria Sprowls
Kopal Srivastava
Enhui Su
Feiyu Su
Ruoyun Tang
Micah Paul Tokiwa
Linshuang Wu
Yuxin Zhou

College of Fine Arts and Mellon College of Science

SCIENCE AND ARTS PROGRAM

BACHELOR OF SCIENCE AND ARTS

◆ Benjamin Joseph Krummenacher
Biological Sciences and Art
◆ Erin Sumin Lee **
Chemistry and Art
◆ Henry Winston Liu
Neurobiology and Music Performance
◇ Barry Steven Mortichesky III
Neurobiology and Music Composition
◇ David Nam
Biological Sciences and Music Performance

College of Fine Arts *and* School of Computer Science

COMPUTER SCIENCE AND ARTS PROGRAM

BACHELOR OF COMPUTER SCIENCE AND ARTS

◆ Angelica Maria Bonilla Fominaya
Computer Science and Art
◆ Sarah Di
Computer Science and Art
Adam Grant
Computer Science and Art
◆ Himalini Gururaj
Computer Science and Art
Minor: Animation and Special Effects
◆ Ashley Yeunju Kim
Computer Science and Art
Additional Major: Human-Computer Interaction
Rahjshiba Amin Koanda
Computer Science and Music Technology
◆ Lauren Kung
Computer Science and Art
◆ Stefan Mason**
Computer Science and Music Performance
Won Woo Nam**
Computer Science and Art
◆ William Charles Ozeas
Computer Science and Music Composition
Minor: Game Design
◆ Shivanand Peri**
Computer Science and Art
◆ John James Quinlan
Computer Science and Music Performance
William Rinkoff
Computer Science and Music Technology
◆ Xin Ran (Mia) Tang
Computer Science and Design
◆ Shuyu S. Zhang
Computer Science and Art
◆ Yunyi Zhang
Computer Science and Art

Dietrich College of Humanities and Social Sciences, Heinz College of Information Systems and Public Policy

INFORMATION SYSTEMS PROGRAM

BACHELOR OF SCIENCE

Rahaf Eyad Aboulibdah
Oluwatobi Adisa
◆ Uzair Ahmed
Minor: Business Administration
Isaac Y. Ahn
Minor: Human-Computer Interaction
◆ Nihad Iyad Abu Aker
Minor: Tech Entrepreneurship
◆ Anjali Elizabeth Akula **
Minor: Business Administration
Khawla Meshal Al Maadeed
Sara Mohamed Al-Mannai *
Minor: History
Nayla Ibrahim Al Mulla
Minor: History
Minor: Psychology
Hassan Ebrahim Al-Ansari *
Noora Bader A.A. Al-Ansari
Minor: Arabic Studies
Shaikha Mohammed Al-Darwish *
Minor: Arabic Studies
◆ Sara Mohammed Al-Emadi
Minor: Business Administration
Abdulaziz Mohamed Al-Harqan
Minor: Business Administration
◆ Fatma Al-Humaidi
Ali Talib Mohammed Al-Malki **
Aisha Ali Al-Athba Al-Marri **
Abdulla Ali Al-Obaidli **
Noora Faleh Al-Saeed **
Minor: Arabic Studies
◆ Malak Fareed Alseaf
Minor: Business Administration
Mohammed Ibrahim Al Sharif
◆ Moudhi Ebrahim Al-Sulaiti
Minor: Tech Entrepreneurship
Mubarak Al-Sulaiti **
Abigail Jane Amonett
Gabriella Ardiles
Additional Major: Statistics and Machine Learning
◆ Luke Anzaldua Arney
Minor: Human-Computer Interaction
Gabrielle Flora Mari'Claire Augustin
Additional Major: Human-Computer Interaction
Minor: Media Design

Omar Azmy Beshara *
Minor: Business Administration

◇ Hessa Adel Boday

◆ Rohan Butani
Minor: Creative Writing
Minor: Human-Computer Interaction

◆◇ Allison Xun Cao
Additional Major: Statistics

Mikail Omer Cheema

◆ Alex N. Chen **
Additional Major: Robotics

◆ Edward Chen
Additional Major: Business Administration
Minor: Computational Finance

◆ Angela Jia Qi Chen
Additional Major: Statistics and Machine Learning

◆ Waverly Blossom Chin

◆ Alexander Chiu
Minor: Software Engineering

◆ Brian Chou **
Minor: Computer Science
Minor: Human-Computer Interaction

◆ Neha Pradyumna Choudhari
Additional Major: Statistics and Machine Learning

Valeria Rosa Cordova Mulvany
Minor: Human-Computer Interaction

Jewel Lisa Rose Dsouza

Annie Joyce Eng

Maryam Ali Abdulrahman Abdulla Fakhroo
Minor: Business Administration
Minor: Psychology

Arham Faraz **
Minor: Global Systems and Management

◆ Manqing (Emily) Feng

◆ Saloni B. Gandhi
Additional Major: Human-Computer Interaction
Minor: Business Administration
Minor: Physical Computing

Kalen Alain Gressler
Minor: Game Design

Marko S. Henien

◆ Emma-Miranda Soida Herrera

Moustafa Saied Moustafa Hussien

◆ Premices Irakoze
Minor: Global Systems and Management

◆ Aigerim Karatay

◆ Kenny Hu Kewei

Rafay Ur Rehman Khan
Minor: Politics and Public Policy

Yousef Adnan Khanfar
Minor: Mathematical Sciences

Elyse Yeji Im

◆ Wen Shan Jiang
Additional Major: Human-Computer Interaction

◆ Liangliang (Amanda) Jin
Minor: Computer Science
Minor: Human-Computer Interaction

◆ Grace Rachel Elizabeth Joseph
Additional Major: Human-Computer Interaction

◆ Sooyoung Kim

◆ Jacob Scott King
Minor: Game Design

◆ Saatvik Suryajit Korisepati
Additional Major: Computer Science

◆ Rohit Kumar

Emma Haley Kwan

◆ Oliver Lance **
Minor: Computer Science
Minor: Creative Writing
Minor: Game Design
Minor: Human-Computer Interaction

◆ Joan Shiyeun Lee
Additional Major: Statistics

◆ Ricky Lee

◆ Tak-Ho Lee
Minor: Software Engineering

◆ Woojoo Lee
Additional Major: Business Administration

Ye Won Lee
Minor: Human-Computer Interaction

◆ Chanaradee Leelamanthep **

◆ Anthony Arturo Lees **
Minor: Computer Science

Cho-Lin Lisa Leung
Additional Major: Human-Computer Interaction
Minor: Media Design
Minor: Societal and Human Impacts of Future Technologies

Anna W. Li

◆ Jiatong Li **
Minor: Business Administration

◆ Meixuan Li
Additional Major: Human-Computer Interaction

◆ Ruitao Li
Minor: Computer Science
Minor: Software Engineering

◆ Yaxuan Li
Minor: Business Analytics and Optimization
Minor: Human-Computer Interaction

◆ Ivana Lin **
Additional Major: Statistics

◆ Kevin Lin
Minor: Computer Science

◆ Tina Lin
Additional Major: Human-Computer Interaction

◆ Wei Tung Lin
Additional Major: Human-Computer Interaction

◆ Spencer Yuton Long
Minor: Business Administration

◆ Tyler James Lowe
Minor: Business Administration
Minor: Software Engineering

◆ Cheng Charles Ma
Additional Major: Computer Science

◆ Ayoub Mansar
Minor: Information Security, Privacy and Policy
Minor: Software Engineering

Dhrishika Manoj Megchiani *

Cecilia Mendoza Garcia
Minor: Global Systems and Management

◆ Sara M. Missak
Additional Major: Computer Science

◆ Fernanda Molina Galindo
Minor: Cybersecurity and International Conflict

◆ Gloria Moon
Additional Major: Human-Computer Interaction
Minor: Media Design

John Namgung

◆ Ethan Russell Nankervis
Additional Major: Business Administration

◆ Saifudden Ahmad Nassar
Minor: Psychology

◆ Emily Duyen Ngo
Minor: Art
Minor: Human-Computer Interaction

◆ Henry Phi Nguyen
Minor: Computer Science
Minor: Human-Computer Interaction
Minor: Software Engineering

◆ Jun Jasmine Nie
Minor: Business Analytics and Optimization
Minor: Human-Computer Interaction

Jonathan Nottingham

◆ Vishesh Anil Pagarani
Minor: Architecture
Minor: Decision Science
Minor: Human-Computer Interaction

◆ Shayan Panjwani
Additional Major: Statistics and Machine Learning

Siddharth Paratkar
Additional Major: Computer Science

◆ Vishnu Pathmanaban
Additional Major: Computer Science

Omar Mukhtar Qamar

◆ Megan Qiang

Roshan A. Ram **

◆ Natasha Anna Rippert
Additional Major: Human-Computer Interaction
Minor: Game Design

◆ Ze Rong

◆◇ Noor Sadiah
Minor: Psychology

◆ Zahir Saiyed
Additional Major: Statistics

◆ Anesha Santhanam

Varshaa Sekar Jayanthi
Minor: Business Administration

Waad Hyaeldin Sharfi **

◆ Michael Song
Minor: Business Administration

◆ Sara Hongqian Song
Minor: Human-Computer Interaction

- ◆ Susan Shanshan Song
  Minor: Business Administration
  Minor: Media Design
- ◆ Helena Spencer
  Minor: Human-Computer Interaction
  Minor: Societal and Human Impacts of Future Technologies
- ◆ Anagha Srikumar
  Minor: Human-Computer Interaction
- ◆ Xiaohan Sun **
  Minor: Computer Science
- ◇ Amal Mohammed A.M. Taymour
- ◆ Erin Susan Thomas
- ◆ Muhammad Uzair Umar
  Minor: Business Administration

  Shrestha Upadhyay **
  Minor: Business Administration

  Deekshita N. Vedula
  Additional Major: Computer Science
- ◆ Leah M. Walko
  Minor: Media Design
- ◆ Philip James Wellener
  Minor: Business Administration
- ◆ April Wu
  Additional Major: Human-Computer Interaction
- ◆ Karen Wu
  Additional Major: Human-Computer Interaction
  Minor: Business Administration
- ◆ Sihan Wu
  Additional Major: Human-Computer Interaction
- ◆ Stella Yan
  Minor: Human-Computer Interaction
- ◆ Jaclyn Yang **
  Additional Major: Human-Computer Interaction
- ◆ Kyle Yang
  Additional Major: Computer Science
- ◆ Xin Yao
  Additional Major: Computer Science
- ◆ Jimmy Zeng
  Additional Major: Computer Science
- ◆ Emily Jingrun Zhang
  Minor: Human-Computer Interaction
- ◆ Victoria Zhang
  Minor: Media Design
- ◆ Zilu Zhang
  Minor: Human-Computer Interaction
- ◆ Sunday Luye Zhou
  Additional Major: Computer Science
- ◆ Xinda Zhou **
  Additional Major: Computer Science
  Minor: Machine Learning

Dietrich College of Humanities *and* Social Sciences and Mellon College of Science

SCIENCE AND HUMANITIES SCHOLARS PROGRAM

BACHELOR OF ARTS

Dustin Steven Bingham
Minor: Physics

BACHELOR OF SCIENCE

Rebecca A. Kalmeijer
Cognitive Science

- ◆ Ji Hyoung Kang **
  Economics

Nika Zaslavsky
Biological Sciences
Minor: Computer Science

- ◆ Zaixing Zhang *
  Mathematical Sciences (Computational and Applied Mathematics)

Honor Society Inductees and ROTC Officer Commissioning

ALPHA IOTA DELTA

Alpha Iota Delta, the International Honor Society in Information Systems and Decision Sciences was founded in 1971. The purposes of Alpha Iota Delta are to confer distinction for academic excellence; to promote fellowship among students, faculty and administrators who share common professional interests; and to promote the application of the tools, concepts and methodologies of Information Systems and Decision Sciences toward the betterment of society. Alpha Iota Delta elects students to membership based on two key criteria: academic excellence and outstanding campus citizenship. The Carnegie Mellon University chapter was established in 2008.

Wen Shan Jiang
Chanaradee Leelamanthep
Nina Li
Rebecca Li
Ivana Lin
Ayoub Mansar
Gloria Moon
Ethan Nankervis
Zeke Rong
Stella Yan
Joanna Yao

ANDREW CARNEGIE SOCIETY

Andrew Carnegie Society (ACS) Scholars are selected each year by their deans and department heads to represent their class in service and leadership. These undergraduate seniors embody Carnegie Mellon's high standards of academic excellence, volunteerism, leadership, involvement in student organizations, athletics and the arts. Since its inception in 1975, the program has recognized over 1,000 students. Each ACS Scholar receives a monetary award — made possible by the generosity of ACS members — that supports their academic and personal growth. Additionally, they work together as a committee to present a gift back to the university community. Through this opportunity, the students experience the joy of philanthropy firsthand.

Kevin Lin

BETA GAMMA SIGMA

Beta Gamma Sigma, the international business honor society, recognizes outstanding academic achievement. It was founded in 1913 and serves business programs accredited by AACSB International — the Association to Advance Collegiate Schools of Business. Membership in Beta Gamma Sigma provides graduates with opportunities to network with other outstanding business leaders throughout the nation. Carnegie Mellon's chapter was established in 1983.

Alicia An
Rishi Dalal
Siddharth Ganesh
William Huang
Chloe Kim
Annie Liang
Jiayi Liu
Sean Oberman
Kevin Sax
Ryan Shaw
Samantha Stocking
Amanda Wagner
John Winters
Jonny Wu

CHI EPSILON

Chi Epsilon is the National Civil Engineering Honor Society in the United States, recognizing engineering students who have exemplified the principles of "Scholarship, Character, Practicality and Sociability" in the civil engineering profession.

Carmen Andrade
Emerson Collins
Lauren Familetti
Grayce Henderson
Lauren Janicke
Sierra Kanosfsky
David Kim
Christopher Roberts
Diana Warren

MORTAR BOARD

Mortar Board is a national honor society that recognizes college seniors from all disciplines for their achievements in scholarship, leadership and service. It provides opportunities for continued leadership development, promotes service to the campus and off-campus communities, and encourages lifelong contributions to society.

Grace Alai
Colton Amos
Maegan Bogetti
Morgan Boyd
Anisha Byri
Allison Cao
Rebecca Cunningham
Christian Deem
Anais Del Rosario Martinez
Abirami Elangovan
Lauren Familetti
Emily Finger
Arianna Garcia Guerrero
Edward Garemo
Amy Germer
Rishika Gogineni
Pranay Gundam
Tyler Harp
Chris Huynh
Leelasri Jay
Linxuan Jiang
Shivank Joshi
Michelle Koo
Daniel Kornbluth
Janice Lee
Zachary Leventhal
Anna Li
Vicky Li
Victoria Liu
Dante Mancini
Claire Marlowe
Alayna Mikush
Mathuso Molapo
Madeleine Riordan
Arianna Rosario
Peter Sauer
Kevin Sax
Ryan Shaw
Karina Shethia
Jiwook Shin
Nitin Sivamurugan
Madeleine Timko
Anishwar Tirupathur
Chalisa Udompanyawit
Stella Yan

OMICRON DELTA EPSILON

Omicron Delta Epsilon (ODE) is an international honor society expressly dedicated to promoting excellence in the field of economics at all levels of scholarship. The Carnegie Mellon Chapter was founded in 1969. Our chapter seeks to promote and recognize achievement in economics at Carnegie Mellon University as well as foster and promote closer ties between students and faculty.

Alon Aboodi
Divya Banerjee
Rushabh Bhansali
Ersi Celiku
Gabriel Dweck
Jason Edmunds
Owen Engbretson
Emily Ford
Alex Ganten
Gary Gao
Verne Anthony Garin
Estée Goel
Esha Gupta
Rachel Han
Ji Hyoung Kang
Victoria Kim
Rohan Kohli
Jonathan Lee
Vicky Li
Josh Lin
Akash Mankude
Stotra Pandya
Erin Park
Ruijia Qian
Ayushi Ray
Elinora Stoney
Andrea Teofanova
Zoe Thorpe
Lee Wang
Hali Wu
Xinhang Yu

PHI BETA KAPPA

Founded in 1776, Phi Beta Kappa is the nation's oldest and largest academic honor society, recognizing outstanding achievement in the liberal arts and sciences. Carnegie Mellon's chapter was established in 1995.

Yiping Alicia An
Megha Anand
Sam Banks
Maegan Bogetti
Annalise Cai
Michelle Cao
Erica Chiang
Amanda Chisholm
Joong Ho Choi
Olivia Corrodi
Rishi Dalal
Zoe Ding
Emily Finger
Arianna Garcia Guerrero
Verne Garin
Michael Gee
Pranay Gundam
Marion Haney
Xinjie He
Max Hirsch
Alan Hsu
Zhiguo Huang
Meghna Iyengar
Rohan Jha
Kunal Joshi
Aditya Kannan

Abigail Kessler
Claire Ko
Rachel Koenig
Xiangchong Sharleen Kong
Minji Kwon
Robyn Lee
Su Min Erin Lee
Zachary Leventhal
Eddie Li
Li Li
May Li
Vicky Li
Ysabel Li
Annie Liang
Kevin Lin
Jamie Liu
Stefan Mason
Ashni Mathuria
Alexandra Mikhalenko
Neha Murthy
Nick Nakasian
Connor O'Keefe
Ola Owodunni
Abigail Park
Ruijia Vicky Qian
Eliza Reedy
Audrey Renouf
Annalise Rodgers
Kendall Scarborough
Emilia Schwallie
Matteo Secomandi
Khunpob Sereesuchart
Abigale Shrack
Samantha Stocking
Shannon Sun
Sean Swayze
Meghana Tandon
Xin Ran Mia Tang
Anjali Thontakudi
Astha Tripathi
Abhishek Vijayakumar
Yilin Wang
Jonathan Wu
Gan Yang
Bryce Yeazell
Sean Yuan

Fall 2022

Nabi Efe Cekirge
Blair Dong
Bill Guo
Lauren James
Maxwell Jones
Ashley Kim
Daniel Kornbluth
William Ozeas
Indra Periwal
Maxwell Plottel
John Quinlan
Kyle Robertson
Daniel Schaffer
Sophia Shan
Joseph Shin
Mason Shockley
Ajunie Virk
Cynthia Xu

PI KAPPA LAMBDA

Recognized as the premier national honor society for academic excellence in music, Carnegie Mellon's chapter was established in 1997. Since then, the School of Music has inducted some 350 students and faculty members into the honors society.

Grace Alai
Sarah Austin
Emma Catherine Berkowitz
Daniella Brancato
Amin Carrillo
Nicole Guccione
Cameron Harper
Nicole Suzanne Lamagna
Maya Norman
Emma Alexandra Rogers
Jacob Thomas Schoenle

PSI CHI

Psi Chi is an international honor society whose purpose is to encourage, stimulate and maintain excellence in scholarship of the individual members in all fields, particularly in psychology, and to advance the science of psychology. Membership in the society is contingent on having obtained the highest standards in academic excellence and having shown a serious interest in the scientific advancement of psychology as a field of scholarly inquiry.

Summer Abraham
Sanaa Akindele
Paige Brady
Alexandra Cheung
Stanley Duong
Colin Echeverri
Aria Eudaimond
Ashley Gelber
Zane Kelley
Charlotte Lamm
Kayla Levine
Brett Nyman
So Yi Park
Jessica Pham
Jess Smith
Hope Sowle
Ashley Statham
Taylor Symonette
Feiyu Zhu

ROTC OFFICER COMMISSIONING

U.S. Air Force

Eric Jenny, 2nd Lieutenant
Joseph Pinon, 2nd Lieutenant

U.S. Navy

Elaina Fleischer, Ensign

U.S. Army

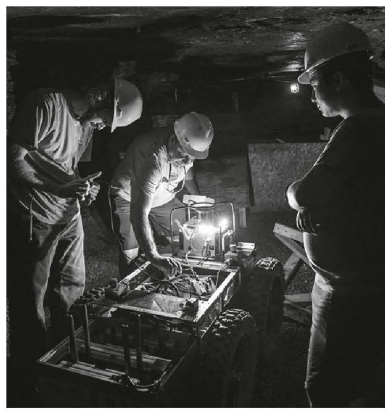
Lauren Familetti, 2nd Lieutenant
Alexandre Glanten, 2nd Lieutenant
Tyler Harp, 2nd Lieutenant
Curtis Lee, 2nd Lieutenant
Reuben Peck, 2nd Lieutenant

Years in Review 2019-2023

It's been a remarkable four years at Carnegie Mellon. Here are some of the highlights.

CMU Wins Fifth "World Cup" of Hacking

AUGUST 2019 – CMU's competitive hacking team continued its dominance in computer security by winning its fifth world championship in seven years.



Carnegie Mellon Robotics Team Wins Initial DARPA Event

AUGUST 2019 – Team Explorer from Carnegie Mellon University and Oregon State University deployed robots to autonomously map and search underground mines and outscored 10 competing teams at the initial scored event in the DARPA Subterranean Challenge.

"Make Possible:" The Campaign for Carnegie Mellon University

OCTOBER 2019 – With more than half in hand, Carnegie Mellon launched a $2 billion comprehensive campaign — the largest in its history — that will accelerate the institution's leadership at the critical intersection of technology and humanity.

Mill 19 Opening Signals New Era of Manufacturing

SEPTEMBER 2019 – Carnegie Mellon University researchers and robots will occupy a state-of-the-art facility at the newly constructed Mill 19 building on the 178-acre site known as Hazelwood Green. Mill 19 once served as the location of the Pittsburgh region's most productive steel mills, employing more than 5,000 workers during its heyday.

"60 Minutes" Highlights CMU Brain Science Research Advances

NOVEMBER 2019 – Leslie Stahl returned to CMU to discuss new work by Marcel Just and colleagues on how humans think about abstract concepts.

CMU-Africa Celebrates New Location

NOVEMBER 2019 – CMU-Africa's new location is the anchor of Kigali Innovation City, which aims to foster innovation and entrepreneurism to catalyze Rwanda's economic growth.

ANSYS Hall Opens

OCTOBER 2019 – ANSYS Hall officially opened as a spacious maker facility where students, faculty and collaborators innovate and interact with cutting-edge simulation and fabrication tools.

CMU Team Uses AI To Help Machines Play Nice with Humans

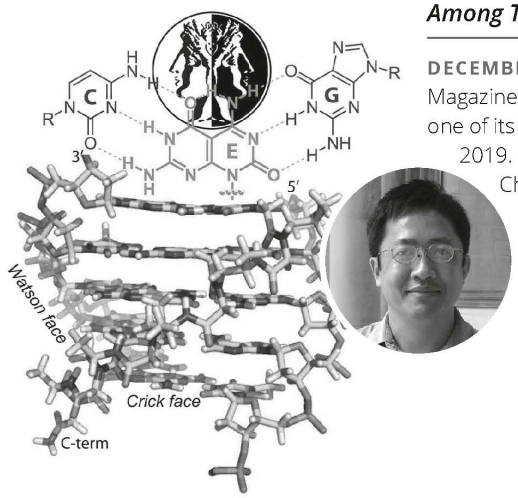
DECEMBER 2019 – An interdisciplinary group of researchers received a $2.8 million DARPA grant to study team collective intelligence and the theory of mind involving human and machine interactions.

Football Player Honored

DECEMBER 2019 – CMU senior business major and defensive end Michael Lohmeier achieved a great return on investment and was one of 12 finalists for the 2019 William V. Campbell Trophy.

Soccer Makes History

DECEMBER 2019 – The 25th ranked Tartans were the first women's team in Carnegie Mellon history to reach the semifinals of an NCAA tournament.

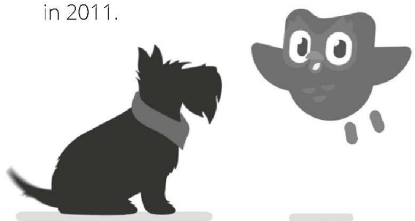


CMU Innovation, Janus Bases, Among Top Innovations of 2019

DECEMBER 2019 – The Scientist Magazine named Janus bases as one of its Top 10 Innovations of 2019. Carnegie Mellon University Chemistry Professor Danith Ly invented the molecules, and they are being used to create new treatments for genetic diseases and disorders.

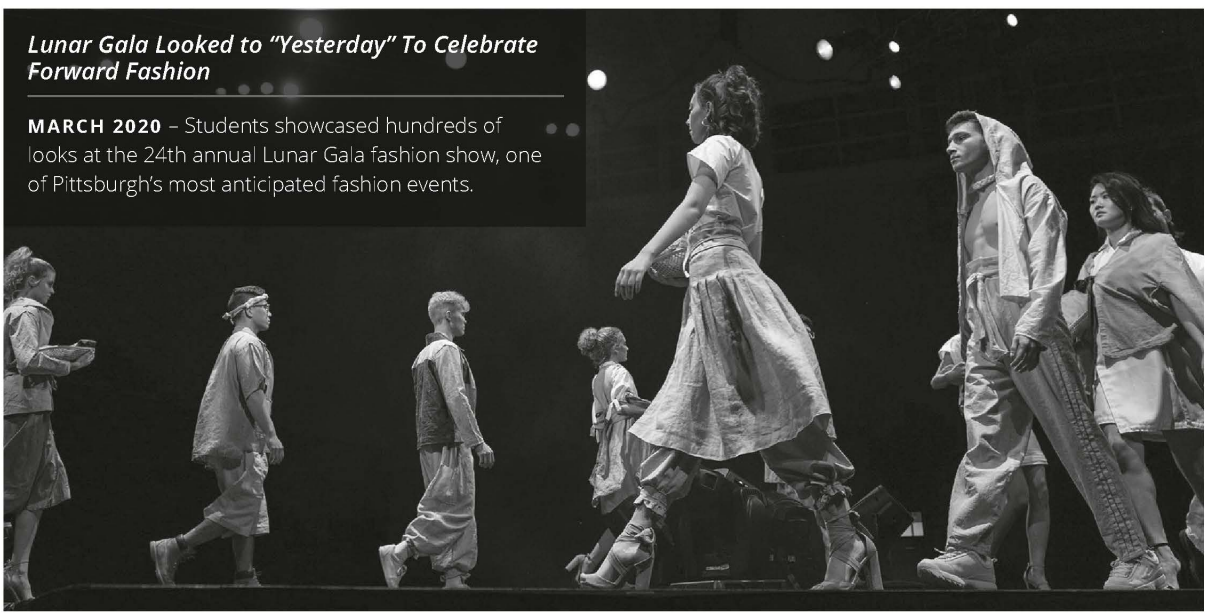
CMU Spinoff Duolingo Translates Success Via Language Learning

JANUARY 2020 – Duolingo, a Carnegie Mellon spinoff, became the first Pittsburgh-based tech startup to be valued at more than $1 billion. The company, which makes the process of acquiring one or more new languages accessible and fun, has been gaining popularity since it was spun out of CMU in 2011.



Lunar Gala Looked to "Yesterday" To Celebrate Forward Fashion

MARCH 2020 – Students showcased hundreds of looks at the 24th annual Lunar Gala fashion show, one of Pittsburgh's most anticipated fashion events.



CMU Design Students Develop Interactive Coronavirus Map

MARCH 2020 – Two juniors in the Design for Environments track at Carnegie Mellon University's School of Design set out to develop an interactive choropleth map and dashboard to track the coronavirus outbreak across U.S. counties. Jason Zhu and Miranda Luong (BDes 2021) were featured in an article by *Pittsburgh Current*.

Pittsburgh Supercomputing Center Resources Available for Urgent COVID-19 Research

MARCH 2020 – The Pittsburgh Supercomputing Center (PSC), a joint effort between Carnegie Mellon University and the University of Pittsburgh, allotted computing time on its Bridges and Bridges-AI platforms for urgent COVID-19 computational research. By contributing to this combined effort, the PSC aim was to empower researchers around the world to accelerate understanding of the COVID-19 virus and the development of treatments and vaccines that would help to address infections and limit spread of the virus.

CMU Dashboard Helped Inform Pennsylvania Decision-Makers During Pandemic

APRIL 2020 – Carnegie Mellon University played a key role in Governor Tom Wolf's planning efforts to reopen the state's economy. The Commonwealth of Pennsylvania partnered with Carnegie Mellon and other institutions of higher learning to make informed decisions based on the best data and science available.

CMU Team Produces Face Shields for Essential Workers

MAY 2020 – Carnegie Mellon University partnered with Global Links, a Pittsburgh-based nonprofit, to supply personal protective equipment (PPE) to community organizations that need them during the COVID-19 pandemic. Producing and distributing these essential items is no small task, but with Carnegie Mellon expertise in design and engineering, along with facilities equipped with 3D printers, laser cutters and talented staff, more than 1,000

Isabelle Bajeux-Besnainou Named as New Dean of CMU's Tepper School of Business

JULY 2020 – After an international search, Isabelle Bajeux-Besnainou was appointed as the 10th dean of Carnegie Mellon University's Tepper School of Business. She also holds a faculty appointment as a professor of finance. Bajeux-Besnainou began her new role at Carnegie Mellon in October 2020.

Interns Innovate for Societal Impact

AUGUST 2020 – Tala Habbab, a master's student in the Integrated Innovation Institute, created *The COVID-19 Innovation Project* as an internship alternative for 250 students from around the world whose lives and previous internship plans had been interrupted by the coronavirus pandemic. With guidance from SLICE, Habbab divided the students into 45 teams to address issues related to educational quality and access and food insecurity, as well as environmental, social, economic or medical impact.

Alumni Surprise Grads in Historic Conferral Ceremony

MAY 2020 – Thirteen high-profile CMU alumni came together on Sunday, May 17, to support and welcome the Class of 2020 as part of the university's first-ever virtual conferral of degrees ceremony.

Tartans All In. Everywhere

SEPTEMBER 2020 – As the COVID-19 pandemic persisted, Tartans all around the globe embraced their collective responsibility to keep themselves and their neighbors healthy by participating in Tartans All In, a university initiative aimed at promoting a culture of shared responsibility for the safety of all community members.

CMU Student Recreates Campus in Minecraft

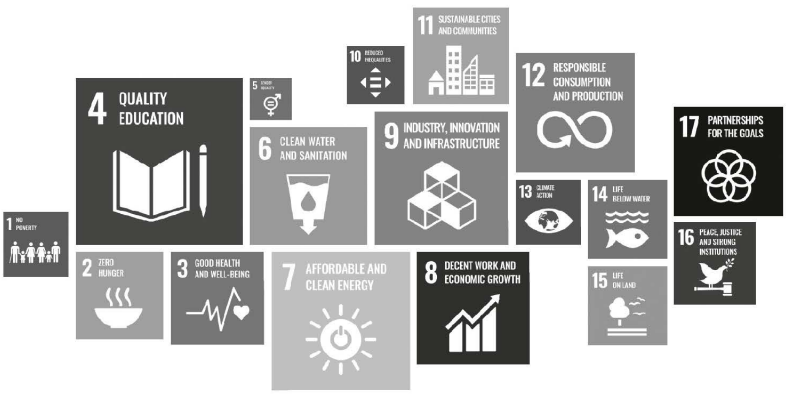
OCTOBER 2020 – Carnegie Mellon College of Engineering student Jared Cohen missed the CMU campus so much that he pulled some friends together — virtually, of course — and utilized some of their quarantine time to recreate the CMU campus in Minecraft ... block by block.

CMU Has Network Advantage in Fight Against COVID-19: Po-Shen Loh uses Six Degrees of Kevin Bacon To Help Fight COVID-19

SEPTEMBER 2020 – Mathematics faculty member Po-Shen Loh pulled information and talent from many schools and colleges across CMU to design, implement, promote and expand his solution for fighting COVID-19, which uses math at its core. The smartphone app, called NOVID, gives users a heads-up when someone in their user network has tested positive for COVID-19.

Campus Traditions Go Virtual

OCTOBER 2020 – Some of the most treasured CMU fall semester traditions were held virtually due to the COVID-19 pandemic. Tartans around the world came together for the first-ever virtual Homecoming weekend filled with contests, web events and other activities like critical conversations, tours, cooking demos and talent competitions. The theme of Tartan Community Day centered around the power of rest, with afternoon and evening sessions featuring activities that inspired connection to self, connection to others and connection to our Tartan community.

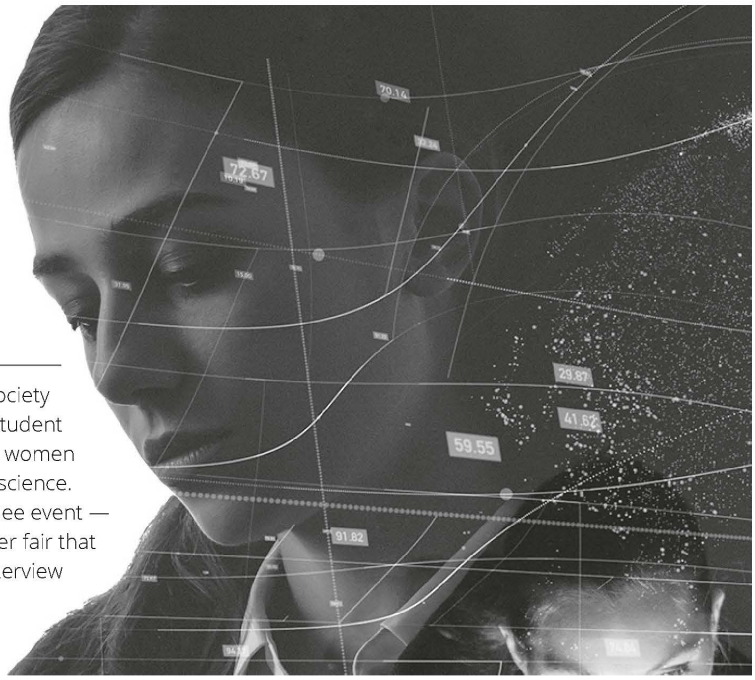

4 QUALITY EDUCATION
6 CLEAN WATER AND SANITATION
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
17 PARTNERSHIPS FOR THE GOALS
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
16 PEACE, JUSTICE AND STRONG INSTITUTIONS

CMU Completes Voluntary Review of Sustainable Development Goals

SEPTEMBER 2020 – CMU strengthened its commitment to sustainability by releasing its Voluntary University Review (VUR) of the Sustainable Development Goals (SDGs) — the first such review in the world — with the intention that CMU's VUR will be a framework for us to track what we are doing across the 17 Global Goals and where we might find opportunities to do more. The VUR sends a strong signal that universities are a critical partner in achieving these 17 ambitious goals

Community App Keeps Students Connected at a Distance

OCTOBER 2020 – Snehita Sana and Nina Zanarelli polled fellow students and found that many were suffering during the pandemic due to a disconnection to their community, not knowing what resources were available to help them, and general social and academic anxiety. To give all CMU students the opportunity to live their university experience to the fullest, wherever they were, they created The College Community App, which allows students to create study groups with their classmates, stay up-to-date on CMU events and find peer support and university resources.



SWEet Success: Bridging the Gender Gap in STEM

NOVEMBER 2020 – The CMU chapter of the Society for Women Engineers (SWE), one of the larger student organizations at CMU, has a mission to support women in STEM, whether that be engineering, math or science. Despite the virtual setting this year, their marquee event — the Technical Opportunities Conference, a career fair that brings hundreds of companies to campus to interview thousands of students for internship and job openings — attracted almost 170 companies and nearly 3,000 student attendees.

CMU Students Work To Get Out the Vote

NOVEMBER 2020 – During the 2020 election, CMU students built coalitions, held virtual voter registration drives, advocated and petitioned, hosted educational programs and championed civil discourse all in an effort to grow voter engagement among the CMU community.

Using Machine Learning To Feed Families in Need

NOVEMBER 2020 – Researchers in the Robotics Institute used machine learning to create optimal, efficient bus routes that allow community nonprofit organizations to deliver meals to senior citizens, as well as K-12 students and families who would otherwise rely on schools for free meals. Nearly 6,000 meals are delivered each month.

Advocacy Through Pageantry

DECEMBER 2020 – While many took up baking or knitting during the pandemic quarantine, Shriya Boppana, a Tepper undergraduate, picked up pageantry not to show her skills or fill time during quarantine, but a way to promote a cause that was close to her heart — ending human trafficking in India and Nepal. Boppana and her friend, Surabhi Khanal, founded an organization in 2016 called Save Our Stars to do just that.

CMU Student Named First Black Recipient of AGMA Scholarship

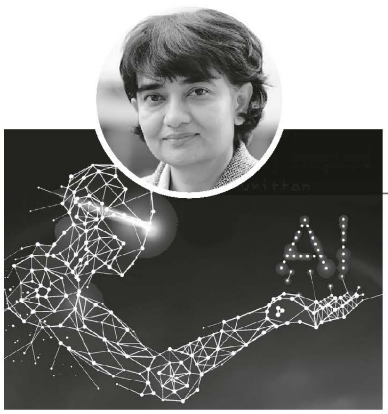
DECEMBER 2020 – David Ajoku, a master's student in mechanical engineering and engineering and technology innovation management, was awarded the American Gear Manufacturing Association (AGMA) Foundation's scholarship. Ajoku is the first Black student to receive this award since the program began in 2010.

Heading-Grant Named CMU's Vice Provost for Diversity, Equity and Inclusion

JANUARY 2021 – Wanda Heading-Grant was selected as Carnegie Mellon University's inaugural vice provost for Diversity, Equity and Inclusion (DEI) and chief diversity officer. Heading-Grant, who was formerly vice president for DEI at the University of Vermont, began her new role at Carnegie Mellon on April 1. She also holds a faculty appointment as Distinguished Service Professor in the Heinz College of Information Systems and Public Policy.

Brothers Complete Long Journey to Doctorates

JANUARY 2021 – Brothers Andrew and Henry DeYoung — both afflicted with spinal muscular atrophy, a progressive neuromuscular disease that restricts the use of their hands and requires them to rely on breathing equipment and wheelchairs — have accomplished something very few siblings do: They defended their doctoral theses at Carnegie Mellon University within a few weeks of each other. Henry defended in December, and Andrew defended in January.



CMU Students Train AI To Write Book of Limericks

FEBRUARY 2021 – Students in Rita Singh's Introduction to Deep Learning course created an Artificial Intelligence (AI) for writing poetry in order to explore how AI might capture elements of artistic expression that are hard to quantify. The AI generated a virtually endless stream of poetry — thousands of poems — from which the students manually selected the 100 to 200 limericks that merited publication. The result is the first AI-generated book of limericks, "For You, Humans," which is now available for sale on Amazon.

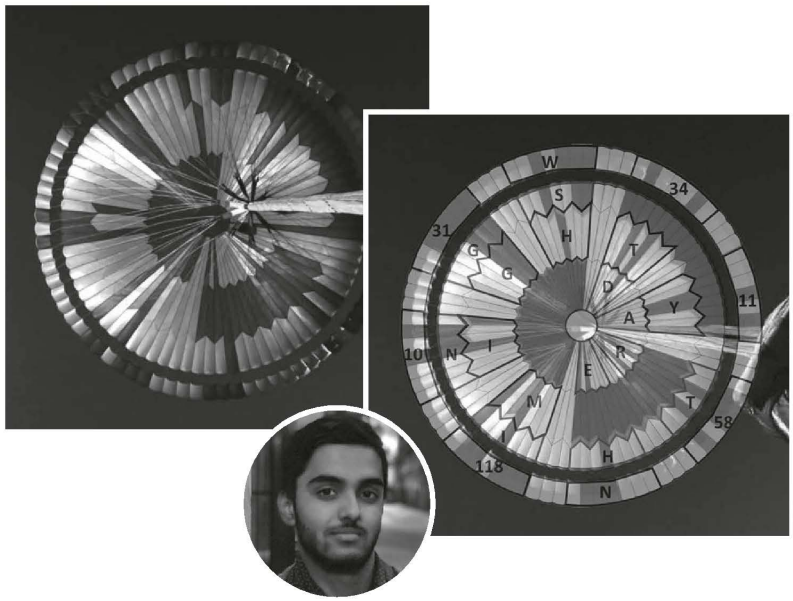
FROM LEFT, CMU DRAMA STUDENTS RAYVEN BAILEY, TARA CLINKSCALES AND KHAILAH JOHNSON PERFORM "SALTY TEARDROPS" FROM THE MUSICAL "CAROLINE, OR CHANGE" DURING "BRING ME TO LIGHT," THE 2020 VIRTUAL CABARET.

CMU Highlighted in New American Theatre Wing Documentary

FEBRUARY 2021 – The American Theatre Wing (ATW) featured Carnegie Mellon in an episode of "Working in the Theatre," ATW's Emmy-nominated documentary series. CMU is one of three schools to be featured in the series (the others are The State University of New York and American Conservatory Theater, San Francisco). The documentary focused on challenges presented to students, faculty and staff during the COVID pandemic, as well as how CMU pivoted to successfully move forward.

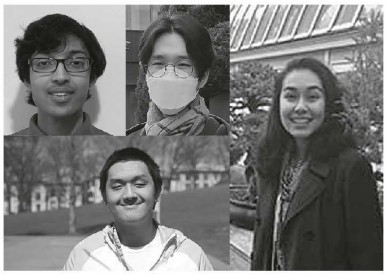
CMU, Pitt Launch Center Dedicated To Combating Extremist Hate

MARCH 2021 – Carnegie Mellon University and the University of Pittsburgh jointly launched a new center to study extremist hate. Scholars at both universities will partner through the Collaboratory Against Hate – Research and Action Center to develop effective tools that inhibit hate's creation, growth and destructive consequences. The center will bring together the collective expertise from all relevant disciplines — including computer science, data science, social sciences, psychology, psychiatry and the law — as collaborators seek to better understand and combat hatred based on race, ethnicity, religion, gender identity, sexual orientation and other prejudices.



CMU Graduate Student Cracks Mars Rover Code

MARCH 2021 – Adithya Balaji, a master's degree candidate in computer science with a passion for rocketry, took note of the coloring and pattern of the parachute on NASA's Mars Perseverance rover, initially thinking they were likely functional, perhaps for aligning cameras. After a NASA engineer suggested that there was a coded message in the parachute's design, Balaji quickly got to work and solved the puzzle. The parachute design contained a code that translated to DARE MIGHTY THINGS," the motto of NASA's Jet Propulsion Lab (JPL).



Four Tartans Among 2021 Goldwater Scholars

MARCH 2021 – Juniors Arvind Mahankali, Ethan Lu, Esther Bedoyan and Jinhyung (David) Park were among 410 Goldwater Scholars named by the Barry Goldwater Scholarship and Excellence in Education Foundation. The four students were chosen from a pool of more than 5,000 college sophomores and juniors.

CMU Recognized for Commitment to First-Gen Students

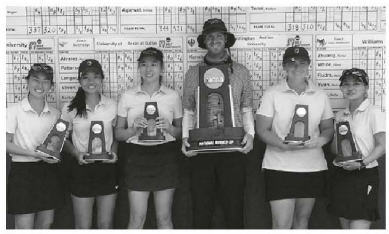
MARCH 2021 – Carnegie Mellon has been designated a First-Gen Forward university for its commitment to improve the college experience for first-generation students. CMU received the honor from the Center for First-Generation Student Success, an initiative of NASPA — Student Affairs Administrators in Higher Education and The Suder Foundation, which selected CMU into its third cohort (2021-22) of member schools. More than 9% of the university's student population are first-gen students.

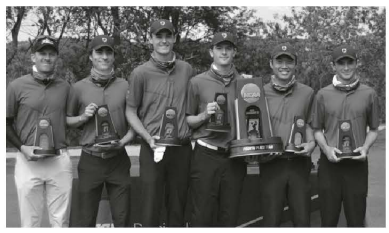
CMU Senior Named a Gaither Junior Fellow

MARCH 2021 – Graduating senior Jacob Feldgoise's work on local, state and national policy issues earned him a place as one of 13 James C. Gaither Junior Fellows at the Carnegie Endowment for International Peace. Gaither Junior Fellows seek out individuals who are leaders in their scholarly and professional areas, with great potential to shift their fields in the course of their careers.

Carnival + Reunion Week

APRIL 2021 – For the first time, CMU extended their most anticipated spring tradition to a full week with online tours, entertainment, panels, contests, a Virtual 5K and more. With record-high registration numbers and great attendance throughout the week, this year's Virtual Spring Carnival and Reunion events reached Tartans across the globe.





CMU Golf Teams Receive National Recognition

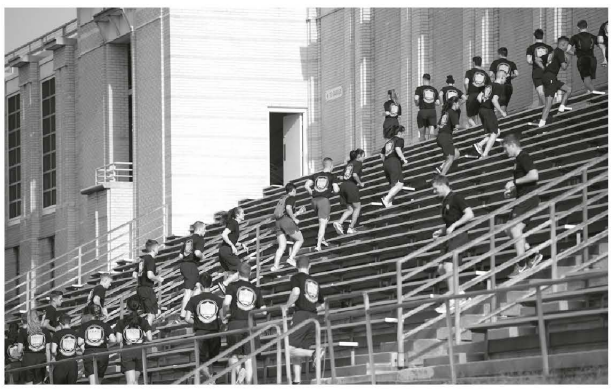
MAY 2021 – Carnegie Mellon's men's and women's golf teams took the national stage during their respective NCAA Championships. Turning in the program's best finish, the men's team finished in fourth place. In their second appearance at the championships since 2018, the women's team finished in second place as the national runner-up.

CMU's Aldrich Coaches in Tokyo Olympic Games

JULY 2021 – Gary Aldrich was the first from Carnegie Mellon to coach in the Olympics. Aldrich guided the U.S. men's team in the shot put, discus, hammer and javelin. This was the seventh time Aldrich has coached Americans in international competition, including stops in Mexico, London, Toronto and Barcelona.

Carnegie Mellon and Emerald Cloud Lab to Build World's First University Cloud Lab

AUGUST 2021 – Carnegie Mellon and Emerald Cloud Lab have partnered to build the world's first cloud lab in an academic setting. The remote-controlled lab will provide a universal platform for AI-driven experimentation and will democratize science for researchers and students who are often limited by the cost, location or availability of equipment.



NROTC Steps Up to Honor the Victims and Heroes of 9/11

SEPTEMBER 2021 – The Steel City Naval Reserve Officers Training Corps (NROTC) gathered at the 20-yard-line of Gesling Stadium to begin a workout that would commemorate the 20th anniversary of the September 11 terrorist attacks. The workout began at 8:46 a.m., the time American Airlines Flight 11 struck the North Tower of the World Trade Center, and involved climbing the stadium steps 17 times, which is roughly the equivalent of climbing all 110 stories of the World Trade Center and enough to ensure one step was climbed for each of the 2,996 people who died in the attacks.

CMU's Posner Lays Track for Future of Rail Transit

AUGUST 2021 – Henry Posner, chairman of the Railroad Development Corporation and an adjunct professor at CMU, furthered his vision for a rail-based mass transit system in the United States with the creation of Pop-Up Metro — a battery-powered, modular train that can be inserted onto existing infrastructure. Posner, who teaches the history class "The American Railroad — Decline and Renaissance in the Era of Deregulation," imported remanufactured passenger railcars from Britain and retrofitted them with battery technology. The battery train is the only one of its kind in the Western Hemisphere.

CMU Opens New Residence Hall and Community Space on Fifth Avenue

SEPTEMBER 2021 – Carnegie Mellon opened Fifth and Clyde House, a new six-story residence hall, and the Fifth Avenue Neighborhood Commons, a 5,000 square-foot community space inside the building, where students, faculty and staff can meet to nurture and strengthen community and connection. The commons includes music jam rooms, dance rooms and study nooks. At the heart of the commons is a hearth, a place to gather, talk and relax.

We're Back!

SEPTEMBER 2021 – Carnegie Mellon students and faculty returned to in-person instruction for the fall semester after 18 months of online classes due to the COVID-19 pandemic. The consensus across campus was that nothing beats learning and teaching in person.

Team Explorer Prepares for Final Round of DARPA SubT Challenge

SEPTEMBER 2021 – Team Explorer, the SubT Challenge entry from Carnegie Mellon and Oregon State University, traveled to the Mega Caverns cave complex in Louisville, Kentucky in an attempt to bring home the $5 million prize money in the final round of the DARPA SubT Challenge, a competition to develop technologies needed by military and civilian first responders to operate in underground environments that are potentially unsafe for humans.

'All Behaviors Welcome' to New Concert Series

NOVEMBER 2021 – Carnegie Mellon's Monique Mead, director of music entrepreneurship at CMU, and a team of graduate students in her "Collaborative Project in Music Entrepreneurship" course, brought Azure concerts to Pittsburgh. The concerts were named for a shade of blue associated with calming and acceptance for people on the Autism spectrum and other related challenges.

Lackner Built a Winning Football Family at Carnegie Mellon

DECEMBER 2021 – Carnegie Mellon football coach Rich Lackner retired after 36 years at the helm following the 2021 season. Lackner, an inaugural inductee into CMU's Hall of Fame, was known for building a program characterized by its close-knit culture, a network of hundreds of football alumni and a moral compass of the highest integrity. He left CMU with 233 wins, 12 conference championships and seven Coach-of-the-Year awards.

CMU Students Prepare to Send Rover to Moon

DECEMBER 2021 – Carnegie Mellon's Iris rover was secured to one of the payload decks of Astrobotic's Peregrine Lunar Lander, which will deliver it to the moon next year. The shoebox-sized Iris aims to be the first American, student-developed, smallest and lightest rover to land on the moon. It is equipped with cameras to facilitate both its guidance and scientific observations of the moon's terrain and rock formations.

CMU Invites Students to Explore Artificial Intelligence with Opening of JPMorgan Chase & Co. AI Maker Space

JANUARY 2022 – This 2,000-square-foot AI maker space facility located in the Tepper School of Business was opened to allow Carnegie Mellon students to develop cutting-edge AI technologies. Unlike traditional maker spaces, which focus on building hardware, the AI maker space concentrates on software development. The space houses state-of-the-art hardware available to students, who also have access to associated software packages and massive datasets to pursue independent research and complete projects.

Senior Greta Markey Earns Marshall Scholarship

FEBRUARY 2022 – Carnegie Mellon's Greta Markey received the highly competitive Marshall Scholarship, which is awarded to fewer than 50 Americans each year to fund graduate education in the United Kingdom. She is the fifth CMU student to receive the award since 1955. Markey, a senior double major in civil and environmental engineering and engineering and public policy, will study environment and international development at the University of East Anglia and its Water Security Research Center.

CMU Hosts Groundbreaking Ceremony for New Beacon of Student Life

JANUARY 2022 – Carnegie Mellon broke ground for the new Highmark Center for Health, Wellness and Athletics, a $105-million facility that will open in fall 2024 and convert the southeast corner of campus into a hub for students' well-being.

Design Students Envision New Ways to Provide Relief in a Water Crisis

JANUARY 2022 – In partnership with Bollinger Motors, the eight students in Eric Anderson's Product Design 3 course configured one of the company's B2 trucks to help first responder mobile water filtration systems deliver drinking and cleaning water to residences within the first 48 hours of a crisis — filling the gap until larger emergency response systems and organizations come online. The students took advantage of the truck's design features such as a patented pass-through channel to create innovative water filtration and delivery systems.

EPA Names CMU One of Top 30 Green Power Universities

DECEMBER 2021 – The Environmental Protection Agency ranked Carnegie Mellon 11th in its Top 30 College and University List as part of its Green Power Partnership. CMU began purchasing renewable energy in 2001 with 5% of the university's electricity usage fueled by wind power. At that time, it was the largest-ever retail purchase of wind-generated electricity in America. Twenty years later, CMU purchases renewable energy for all of its electricity needs.

CMU Student Competes in Jeopardy! National College Championship

FEBRUARY 2022 – Carnegie Mellon senior and self-proclaimed trivia nut Kristin Donegan competed in the Jeopardy! National College Championship, advancing to the semifinals. She had been trying out for Jeopardy! regularly since she arrived at CMU as a first-year student. Donegan wasn't the only one in her family who's a trivia ace — her fraternal twin sister, Ciara, a senior at the University of Maryland, appeared on the game show a few weeks later.

Campus Community Rises Up Against Hunger

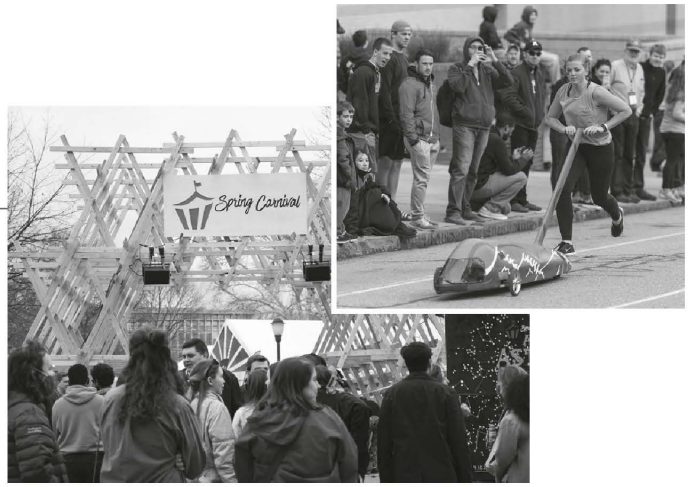
FEBRUARY 2022 – After a two-and-a-half-year hiatus due to the COVID-19 pandemic, more than 250 members of the Carnegie Mellon community came together to package 58,536 meals in a Rise Against Hunger event in Wiegand Gymnasium. Rise Against Hunger is a growing global movement to end hunger by empowering communities through agriculture and income-generating initiatives, nourishing lives through safety net programs and responding to emergencies through crisis relief. The meals, which were shipped to Haiti, included enriched rice, soy protein, dried vegetables and 20 essential vitamins and nutrients.

CMU Earns Gold Rating for Commitment to Green Practices, Sustainability

MARCH 2022 – Carnegie Mellon was awarded its second consecutive gold ranking by the Association for the Advancement of Sustainability in Higher Education for its sustainability performance in five categories: Academics, Engagement, Operations, Planning and Administration, and Innovation and Leadership. Carnegie Mellon earned a silver rating in 2015 and its first gold award in 2019.

Adventurously Themed "Ad Astra," Spring Carnival Returns to Campus for In-Person Fun

APRIL 2022 – Andrew Carnegie must have been smiling from above. For the first time since 2019, Carnegie Mellon's Spring Carnival, the most celebrated university tradition, returned to campus in person and in full glory with thousands of Tartans enjoying all the traditional favorites, including Booth, Buggy and Mobots. The Sweepstakes Races, a.k.a. Buggy, celebrated 100+ years this spring as they began in 1920 as part of Campus Week.



Undergraduate Women Use Political Power to Create Change

MARCH 2022 – Undergraduate women at Carnegie Mellon are impacting local and national politics through involvement in student groups like Women in Politics at CMU and Feminists Engaged in Multicultural Matters and Education (F.E.M.M.E.). The groups strive to educate students by demonstrating the power of political participation, encourage women and minority students to recognize politics as an effective means of personal empowerment and educate the campus community on societal marginalization through an intersectional feminist lens.

Carnegie Mellon University and Mastercard Foundation Partner To Drive Youth-led Digital Transformation in Africa

SEPTEMBER 2022 – Carnegie Mellon University and the Mastercard Foundation, in collaboration with the Government of Rwanda, have entered into a transformational partnership in higher education and innovation in Africa to catalyze opportunities for 10,000 young people to engage with emerging technologies and lead the digital transformation of the continent. The $275.7 million investment from the foundation includes a $175 million endowment to perpetually fund Carnegie Mellon Africa and $100.7 million to establish CMU-Africa's Center for the Inclusive Digital Transformation of Africa.

Guiding the Clean Energy Transition

SEPTEMBER 2022 – The first-ever Global Clean Energy Action Forum drew members of the global energy community to Pittsburgh to share their ideas on how to move toward a clean and sustainable future. Carnegie Mellon University was a co-sponsor with the Department of Energy in hosting the conference.

Installation Ceremony Officially Welcomes CFA Dean

OCTOBER 2022 – Mary Ellen Poole was officially installed as Carnegie Mellon University's 13th Stanley and Marcia Gumberg Dean of the College of Fine Arts in Kresge Theatre on Thursday, Sept. 29. A well-known musicologist, she also will hold a faculty appointment as a professor of music. Throughout her career, she has consistently advocated for increased performance opportunities for student ensembles.

Undergraduate Researches the Impact of COVID-19 on Gender Identity

SEPTEMBER 2022 – During the COVID-19 pandemic, psychology major Alana Silva-Cacdac saw close friends in isolation begin to question their gender identity. With the help of her Summer Undergraduate Research Fellowship, Silva-Cacdac was able to conduct research to better understand how gender identify is formed.

Movie Math: Tetali's Equations Seen in Film

OCTOBER 2022 – Prasad Tetali, the Alexander M. Knaster Professor and head of the Department of Mathematical Sciences in the Mellon College of Science, wrote the on-screen calculations in the Paramount+ movie *Jerry & Marge Go Large* to explain how the math in a legal lottery loophole would work.

Tartans Celebrated for Their Exceptional Academic Standing

DECEMBER 2022 – Thirty-one of the highest-achieving juniors and seniors were recognized for their commitment, passion and success in the classroom at the annual Student-Athlete Academic Achievement Celebration. Collectively, the honored students hold a 3.87 grade-point average. A dozen of them have perfect 4.0 GPAs. And together, they've helped the Tartans achieve record-setting athletic results.

Bill Sanders Installed as the Dr. William D. and Nancy W. Strecker Dean

DECEMBER 2022 – A long-awaited ceremony to formally install William H. Sanders as the 15th dean of the College of Engineering and celebrate the extraordinary gift to establish the Dr. William D. and Nancy W. Strecker Dean's Chair that Sanders now holds was held on Thursday, Nov. 3. Sanders joined Carnegie Mellon in January 2020 only months after the dean's chair was created and just weeks before the campus transitioned to remote instruction status in response to the COVID-19 outbreak, causing the university to postpone the ceremony.

Inspiring the Next Generation of Artists

JANUARY 2023 – The 2022 winner of the Excellence in Theatre Education Award, Roshunda Jones-Koumba, and her students at G.W. Carver Magnet High School in Houston, Texas received a special visiting master class by faculty and alumni from the School of Drama. The award was created through a partnership between CMU and the Tony Awards to annually recognize a K-12 theatre educator in the U.S. who embodies the highest standards of the profession and demonstrates a positive impact on the lives of students, advancement of the theatre profession and a commitment to excellence.

CMU Pairs with Penguins on Autonomous Zamboni Machine

JANUARY 2023 – A student team from CMU's Robotics Institute dubbed "AI on Ice" has partnered with three organizations, including the Pittsburgh Penguins, to improve rink ice consistency using artificial intelligence.

Theresa Mayer Named Vice President for Research

JANUARY 2023 – Theresa Mayer was named CMU's new vice president for research. The Office of the Vice President for Research advocates for university research through global thought leadership; provides central research administration; supports a culture of ethical research and compliance; promotes economic development through technology transfer and entrepreneurship; builds new and diverse research partnerships with industry, government and nonprofit entities; and works with colleagues across campus to support university-wide research initiatives and creative endeavors.

CMU Named Top Producer of Fulbright U.S. Students

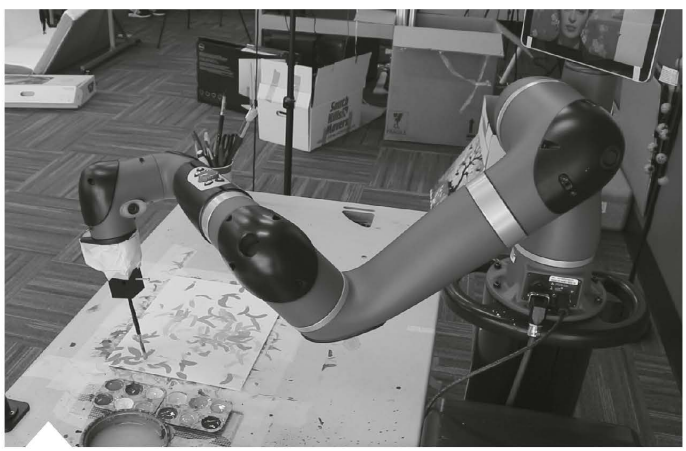
FEBRUARY 2023 – Carnegie Mellon University was named a top producer of Fulbright U.S. students by the U.S. Department of States' Bureau of Educational and Cultural Affairs. In the academic year 2022-23, 10 students and recent alumni were selected for the international education program, which provides funding to teach English, pursue graduate studies or conduct research abroad. CMU has been a part of the Fulbright program since the inaugural class in 1949. Since then, 122 Tartans have been selected.

Carnegie Mellon, Rales Foundation Announce Groundbreaking Initiative To Broaden Access to STEM Education

FEBRUARY 2023 – A $150 million gift from the Norman and Ruth Rales Foundation will establish the CMU Rales Fellows Program that will cultivate a new generation of domestic STEM leaders while eliminating cost as a barrier to graduate education. Empowering students from underrepresented and under-resourced backgrounds — dubbed the Missing Millions by the National Science Foundation — through a graduate degree will increase the number and diversity of voices within STEM research, education and innovation, and also will help the U.S. meet the growing need for a new generation of leaders.

New Student-Run Eatery Opens in the Tepper Building

FEBRUARY 2023 – Capital Grains, a new student-run eatery in the Tepper Building, will provide another nutritious dining option on campus and an opportunity for students to grow their skills in restaurant management and operations. The eatery is a first-of-its-kind for Chartwells, which oversees the dining experience at CMU and about 300 other college and university campuses nationwide.



Carnegie Mellon's AI-Powered FRIDA Robot Collaborates with Humans To Create Art

FEBRUARY 2023 – CMU's Robotics Institute has created a robotic arm that uses artificial intelligence to collaborate with humans on works of art. FRIDA, named after Frida Kahlo, stands for Framework and Robotics Initiative for Developing Arts. The robot uses AI models similar to tools like OpenAI's ChatGPT and DALL-E 2, which generate text or an image, respectively, in response to a prompt. FRIDA simulates how it would paint an image with brush strokes and uses machine learning to evaluate its progress as it works.

Doctoral Research Reaches Public in 3MT Championship

MARCH 2023 – Durva Naik from the Department of Materials Science and Engineering took first place at the annual Three Minute Thesis competition. Each year, doctoral candidates compete to explain their research in three minutes in language simple enough for a general audience to understand. The event, which is in its eighth year at Carnegie Mellon, started at the University of Queensland in 2008 and has been adopted by over 900 universities across more than 85 countries worldwide.

Team Wins Air Force Research Laboratory AI Grand Challenge

MARCH 2023 – A team of collaborators from Carnegie Mellon University and the University of North Carolina at Chapel Hill won Phase 1 of the National Security Innovation Network-sponsored Air Force Research Laboratory Active AI Planners for Chemistry/Materials Optimization and Discovery Grand Challenge.The challenge includes the potential of a $500,000 contract to develop a machine learning artificial intelligence system that can help researchers quickly find appropriate experimental conditions for optimizing and discovering new synthetic compounds using multisystem approaches.

Iris Rover Team Prepares for Upcoming Launch

MARCH 2023 – A CMU student-built moon rover called Iris is scheduled to head to the moon this year. The rover will be the first American lunar rover, the first student-developed rover, the smallest and lightest rover, and the first with both a carbon fiber chassis and wheels. The Iris mission demonstrates what is possible and could chart the future of planetary exploration.

Congratulations
NEW ALUMNI!

As you move into your exciting next chapter, it's easy to **stay connected** and **show your CMU pride**:

Attend CMU events in your area and online

Discover ways to assist future Tartans

Keep your contact info current

Follow us on social media

Join the Alumni Community

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Learn more about these and other ways to **stay connected to CMU** throughout your life:

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